

Oleg Chiorsac (Kiorsak)

Cloud Solutions Architect | Technical Architect | Tech Lead

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Solutions Architecture, Enterprise Architecture, Technical Architecture, Platforms Architecture, Digital Transformation, DevOps / DevSecOps, Performance Engineering, System Integration, Software Architecture, Software Engineering / Full SDLC / Team Leading, Data Modelling, Data Processing/Analysis, Data Flows, Distributed Systems, Messaging, Enterprise Integration, APIs, Cloud Platforms, Mobile Platforms, Enterprise Mobility, Industrial Mobile Solutions, Edge Computing, IoT/IIoT.

Amazon **AWS Certified Solutions Architect, AWS Certified Cloud Practitioner, AWS Certified Developer, AWS Certified SysOps Administrator.**

Microsoft Certified **Azure Fundamentals.**

Australian Government **Baseline Security Clearance.**

Areas of Expertise

- **Distributed** Systems/Applications/Architectures
 - **Messaging**, Message Queueing; **Event** Processing / Event Sourcing
 - Systems **Scalability**, Performance, **Monitoring/Observability**, Stability, **Reliability**, Maintainability
 - **Cloud** Computing (Amazon **AWS**, Microsoft **Azure**)
 - **APIs** / **Web Services** (SOAP, REST, etc.)
 - **Containerization** (**Docker**, DockerHub, AWS **Amazon ECS**, AWS **Fargate**, Amazon **ECR**)
 - **Open-Source** Ecosystems
 - **DevOps** / **DevSecOps**, **CI/CD**, **IaC**, **GitOps**, Automation
 - Enterprise **Integration**, B2B Integration
 - Service-Oriented Architecture (**SOA**)
 - Servers, **Services**, Microservices, **'Serverless'**
 - **Internet** and Web Technologies (vast experience, sound grasp of fundamentals/'from first principles')
 - **Networking** (Fundamentals/Principles, OSI Model, Protocols, Infrastructure, Security)
 - Mobile/Wireless Networks and **Telecommunications**
 - **IoT/IIoT**, **Edge** Computing, **Industrial** Computing, Industrial Automation
 - Relational **Database** Management Systems, **Data Modelling**, Database Design
 - Information Modelling, **Information Systems** Design, Development, Implementation and Support
 - **Software Engineering**/Design Principles and Patterns (**'GoF'**, MVC/MVP/MVVM, 'Clean Code', **'SOLID'**)
 - SD Methodologies (both **Agile** and Waterfall), **SDLC**, ALM, CI/CD
 - SE/SD Processes Practices and Tools
 - Software Architectures and **Architectural Patterns** (**'POSA'**), Enterprise Integration Patterns (**'EIP'**)
 - **Concurrency** Models, Parallel and Distributed Processing
 - Enterprise **Mobility**, Mobile 'Line-Of-Business' Solutions; Enterprise Mobile Device Management (**MDM**)
 - **Mobile Applications** Development and Distribution, Mobile **Platforms** and Ecosystems
 - Domain-Driven Design (**DDD**)
 - **Programming** Languages, Concepts, Paradigms and Techniques (Structured Programming, Functional Programming, **OOP/OOD**, **Patterns**, **Principles**, **TDD**, Defensive Programming, Code Quality, Coding Styles, Static Analysis, etc.)
 - **ITIL**, Enterprise IT Infrastructure Management (Software Deployment, Remote Systems Management, Security & Patch Management, IT Asset Tracking, Software Asset Management, License Compliance, Device Management)
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Key Platforms, Languages, Frameworks	• Windows, UNIX/Linux, macOS/iOS • Cloud (Amazon AWS, Microsoft Azure) • .NET / .NET Core, C#, C/C++ • Node.js, JavaScript, Python • Java, Java Core, Java EE, Android Java • SQL (Oracle. SQL Server, MySQL, SQLite) • Objective-C, Swift, Cocoa, Core Services • Go ("GoLang")
Industries	• Transportation and Logistics – Line-Of-Business Solutions, Enterprise Mobility • Government – Public Service and Regulatory Information Systems • Capital Markets – Share Registry Infrastructure • Software and SaaS Products Manufacturing • e-Business – Digital Asset Management, Pre-Press/Design Artwork Workflow, Online Social Competitions
Education	Moldova State University, Chisinau, Republic of Moldova (USSR) MSc, Applied Mathematics, Computer Science Grade Point Average: 9.24 (out of 10.0 maximum)
Professional Memberships	ACM (The Association for Computing Machinery) IEEE Computer Society ACS (Australian Computer Society)
Experience (References for all roles and projects are available upon request)	02/2020 – present Telstra Corp., Telstra Software Engineering Chapter, Networks & IT – Application DevOps Position (Contract): Solutions Architect & Agile FTL In a "hybrid" role of a <i>Solution Architect & Agile FTL (Feature Team Lead)</i> - leading the Solution Architecture and Agile Software Engineering process within an Team of 8-10 developers/devops/architects within the Telstra's Software Engineering Centre of Excellence (TSE CoE), working directly together with Product Owner and Scrum Master. The team is responsible for development and operational ownership & maintenance of Telstra's Software Engineering organisation's internal 'SaaS' type Product/Service that is used by internal customers (by Telstra's numerous globally distributed/offshore B2C and B2B business applications' development teams) for conducting automated SVT (Scalability-and-Volume-Testing) type Tests of <i>Non-Functional (NF) Characteristics</i> of their various types of solutions/applications/services (SaaS, web applications, APIs, messaging/MQs, events streaming, etc.). These are characteristics such as Load Testing / Benchmarking, Scalability testing, Capacity/Breakpoint testing, Soak testing, Mock Delay, 'Chaos Engineering', etc. The SaaS Product/Service known as NFT-SSP-SVTE provides both a framework of APIs and scripts for "non-interactive" (CICD Pipelines jobs/batches driven) execution of NFT SVT tests, as well as a Self-Service Portal (SSP) for an interactive Web UI driven definition, record-keeping and execution of NFT SVT tests and analysis of the results. Technologies/Methodologies/Tools: • Amazon AWS – AWS Lambda, AWS Serverless Application Model (SAM), S3, SQS, SNS, SES, EC2, ECS, Fargate, Kinesis Streams, Kinesis Firehose, Glue, Athena, Serverless Aurora RDS, VPC, ALB, API Gateway, CloudWatch, CloudTrail, AWS SDKs, AWS CLI, CI/CD (CodePipeline, CodeBuild, CodeArtifact, CodeDeploy), DevOps / IaC (CloudFormation), GitOps; • Node.js (microservices/APIs), React, Microsoft Graph API / Azure AD SSO; • JavaScript, Python, Go, JSON, YAML; • Docker containerization, Swagger / OpenAPI; • Postman / Newman, SoapUI, Hoverfly, jMeter, Taurus, Mocha, Jest, Se; • SonarQube, Splunk, APM (New Relic, Dynatrace); • Sparx Systems Enterprise Architect; • Enterprise Scrum / Scaled Agile Framework (SAFe); • Atlassian Jira, Bitbucket/Sourcetree, Confluence, Bamboo; • Microsoft Teams, Power BI

**Deloitte Australia, Deloitte Platform Engineering
Platform Solution Architect – Manager**

Jun-2019 – Dec-2019

As a Solution Architect, successfully carried out engagements on Deloitte's Consulting Practice projects. Key project engagements included:

Australian Federal Government - Department of Employment, Skills, Small and Family Business, Second Pass Business Case for the New Employment Services Model Project,

Canberra, ACT, Oct-Dec 2019

Successfully lead the development of the architecture components and deliverables of the Second Pass Business Case Project. Specific activities carried out included:

- Proactive engagement and collaboration with Client's IT teams (Enterprise Architecture, Solutions Delivery, ICT Infrastructure, etc.) and Business Subject Matter Experts on defining the current/baseline and future/target business, functional and technical architectures, architecture principles, strategies, roadmaps;
- Liaising with stakeholders (both IT and Business) - facilitating and assuring stakeholders' 'buy-in' on technology architecture aspects of the Project;
- Engaging and liaising with external parties with which the Department has system and process dependencies that need to be resolved/coordinated and managed, such as other Federal Government departments and agencies (DHS, ATO, DTA, ASD, etc.) and technology industry vendors/providers;
- Mentoring and coaching of the less senior members of the project's architecture/technology stream team

Specific deliverables included:

- Solution Architecture Definition – Current/Baseline State;
- Solution Architecture Definition – Future/Target State;
- Technology stream input into the Market Engagement/Procurement Plan

Technology landscape:

Microsoft Windows, Hyper-V, VMWare, Microsoft **SQL Server**, Microsoft Visual Studio Enterprise Edition, Team Foundation Server (TFS) / Azure **DevOps**, CI/CD, Azure **API Gateway**, Azure **Data Services**, **ML/AI**, **Microservices**, Web **APIs**, ASP.NET/IIS/Kestrel, WCF/SOAP, REST, **.NET/C#**, Microsoft Service Bus / Azure Service Bus, IBM **MQ**, CA COOL:GEN ("Mainframe"-style "Monolith"), **Monolith-to-Microservices Transformation**; Sparx Systems **Enterprise Architect**, **Atlassian** Jira, Confluence, Microsoft **Teams**

Air Quality Monitoring (AQM) Initiative within the Deloitte EPA Digital Transformation Project, Environment Protection Authority (EPA) Victoria, Melbourne, Jul-Aug 2019

Successfully carried out Assessment of Current Air Quality Monitoring (AQM) Distributed Sensor/Instrument Data Acquisition Solution, evaluation of alternatives/options and their suitability/feasibility:

- Proactive engagement and collaboration with Client's technical/subject matter experts and stakeholders
 - Discovery and Assessment of Existing Solution and its Technical Architecture
 - Defining the 'Ideal' (New) Solution Requirements and Architecture
 - Research and Market Scan for alternative solutions (both traditional Industrial Automation types and modern IoT/IIoT types)
 - Research of Azure IoT Capabilities and their potential applicability in EPA AQM context
 - Analysis of Options
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Technology landscape:

Industrial Air Quality Analyzers/Instruments/Sensors, Industrial Automation Protocols and Interfaces, RS-232, TCP, Modbus, Modbus-TCP, **Industrial IoT (IIoT)**, **MQTT**, Industrial Rugged Computing and Networking, Wireless and Mobile **Networks** and **Telecommunications**, BT/BTE, WLAN, **WWAN/LTE**, LoRa/LoRaWAN, Sigfox,

Microsoft Windows Server, Windows Services, **C/C++**, **.NET C#**, Microsoft **SQL Server**, Azure Data Services, **Azure IoT Hub**, **Azure IoT Edge**

Toll Group Technology

Technical Architect / Tech Lead

Aug-2007 - Mar-2019

Technical/Solution Architecture, Technical Ownership, Tech Team Leadership

- **Architectural and Technical Ownership** of a portfolio of complex, **mission-critical**, and interrelated in-house solutions/applications - encompassing Technical Architecture, Software Architecture and Design, SDLC, Operational Support (Incident Management Escalation, Problem Management, Triage and Diagnostics, P1&P2 Severity incidents emergency 24x7 responding/"pager duty", "Crisis Meetings", etc.), Telecommunications, Information Security, Performance Management, Monitoring/Alerting, Troubleshooting/Root-Cause Analysis/Problem-Solving, liaising with external vendors and partners, and all other relevant aspects of some of the core mission-critical solutions used by TOLL Business Units for their everyday operations
- **Technical Lead** of the "ILFT and Mobility" software development and maintenance team - leading and defining the development process and practices, and managing, mentoring, coaching and developing the team members
- Responsibility for Selection/Design/Architecture/Implementation and Ongoing Administration of **Mobile Device Management** solution using an industry leader SOTI MobiControl product from SOTI Inc.
- Engagement/liaison with technology **vendors and partners** (Optus, Telstra, Microsoft, Oracle, Intermec/Honeywell, Motorola/Zebra, SOTI) on solving technical issues and assuring the high standards of quality of the supplied services and products.

ManageSoft

Senior Software Engineer

Nov-2004 - Aug-2007

Providing leadership in the development of computer software from system requirements through to maturity. This included the active contribution to analysis, estimation, design, coding, testing and maintenance tasks, and the creation of associated deliverables. Also providing technical expertise in areas of specialized experience and/or special interest in form of internal seminars, on-going mentoring, reviews, peer reviews and feedback.

INTERACT Pacific

Senior Software Development Engineer

Jul-2000 - Nov-2004

Technical Architecture/Design and Hands-On Implementation of Internet-based Software Solutions using Java, J2EE, ColdFusion and SQL; Monitoring and ensuring smooth operation of a number of high-availability dot-Com and e-Business web-sites/services and related servers infrastructure; Mentoring and training other software developers.

Price Waterhouse / PricewaterhouseCoopers (Kiev, Ukraine)

MCS (IT) Senior Consultant – MCS (IT) Manager

Mar-1997 - Jun-2000

Successfully performed Consulting and Managing assignments acting in a capacity of an International Consultant, IT Team Lead and IT Manager on several Privatization and Capital Markets Development projects in some of the 'newly independent states', liaising directly with securities industry representatives and government officials

- **USAID** Ukraine Mass Privatization & Capital Markets Development Project
- Bosnia and Herzegovina Mass Privatization & Capital Markets Development Project
- **World Bank** Republic of Georgia Share Registry Infrastructure Project
- USAID Republic of Armenia Mass Privatization & Capital Markets Development Project

Price Waterhouse LLP (USAID Project), Chisinau, Moldova

MIS Managing Programmer (Team Lead)

Mar-1994 - Feb-1997

Managing and leading a team of five local programmers, the "Share Registry Software Unit", which was in charge of functional requirements elaboration and technical implementation, development/modification, QA & testing, distribution and support of the Share Registry Software modules which were provisioned by the United States Agency for International Development (USAID) for establishing an adequate IT-infrastructure for building automated securities market in the Republic of Moldova

CBT Research Laboratory at Moldova State University, Chisinau, Moldova

Systems Programmer (part-time)

Jan-1991 – Feb-1994

Design and programming (C/C++, Turbo Pascal, Intel x86 Assembly) of complex software systems for Computer Based Training (CBT) and Computer Assisted Software Testing (CAST).

REFERENCES FOR ALL ROLES AND PROJECTS ARE AVAILABLE UPON REQUEST.

A LONGER (DETAILED) RESUME ALSO AVAILABLE:

<http://resume.okapps.cloud/>

AWS CERTIFICATIONS TRANSCRIPT:

<https://www.certmetrics.com/amazon/public/transcript.aspx?transcript=VVDF0X12CBF1QLCK>

MICROSOFT CERTIFICATIONS BADGES:

<https://www.youracclaim.com/badges/56e53996-9396-4fac-b129-428d2cab036c/>