Gregory F. Pohlner

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SUMMARY

Over 20 years of full software development life-cycle (SDLC) experience including requirements gathering, defining, and refinement, preliminary and detailed design, development, testing, deployment, and maintenance as well as technical, program, and personnel management experience.

SKILLS

Languages: Java, C, C++, C#, XML, SQL, Python, Jython, Ruby, JRuby, Shell Scripting (sh, bash, csh, tcsh, zsh), Atlassian, JIRA, Confluence, BitBucket

Certifications: EVMS (Earned Value) Certified, CompTIA Security+, Scrum Inc. Certified Scrum Master

EXPERIENCE

Software Architecture Engineer
Boeing, Seal Beach, CA
Sep, 2021 - Present

- Software Architect and Project Execution Lead on $1.5M+ IRAD over 6+ Software Engineers. Designed architecture for suite of microservices to implement a commercial open standard interface into existing planning framework using UML, SysML, and C4 diagrams. Created and maintained Agile EVMS plan using Atlassian, JIRA, and Confluence and reported traditional EV metrics. Facilitated Technical Exchange Meetings (TEM) with internal and external entities. Culminated in internal live demo of end-to-end Proof of Concept (POC) with simulated interfaces at terminal ends of interface. Created, refined, and internally presented Agile Software Development Approach for existing programs and proposals to customer.
- Designed and implemented internal and external RESTful APIs in Python in a CI/CT/CD DevSecOps orchestrated, containerized, cloud environment.
- Release Train Engineer (RTE) in Scaled Agile SAFe 5.1 DevSecOps environment. Servant leader and Agile Coach. Facilitated bi-weekly Scrum of Scrums, quarterly Product Increment (PI) planning and execution, bi-monthly Sprint Planning, Sprint Demonstrations, Sprint Execution, and Backlog grooming over 3x teams of 6+ software engineers each, 20+ total. Created and presented Software Development Metrics in JIRA/Confluence. Maintained and presented Software Application Gate/Release/Review status in JIRA/Confluence. Created and/or refined and consulted on Software Development Plan (SDP), Software Release Process, Peer Review Process, System Engineering Management Plan (SEMP), Program Management Plan (PMP) across multiple programs and Enterprise level. Participated in multiple software and systems proposal development activities.

Staff Software Engineer

Northrop Grumman, Redondo Beach, CA
May, 2020 – Sep, 2021
- Software Development Facility (SDF) Project Lead and Cost Account Manager (CAM) for National program Comm Payload. Coordinated Software, Hardware, Systems, Integration, Test, Security, Facilities, and Global Supply Chain (GSC) on the design, procurement, construction, configuration, and operation of a Software/Hardware integration and test laboratory. Developed and presented technical RFP response, historical based BOEs, and UB Lien packages to senior PMO. Refined and presented Agile training for teams and supported Hiring and Recruiting Events across Software and Systems Engineering groups over Zoom.
- Collaborated with Software and Hardware SMEs from legacy, heritage programs on the requirement specification, iterative, refinement, and design of various server and client hardware/software to support software development, integration, and test
- Consulted with CompSec and InfoSec on data network topology design and implementation, and Risk Management Framework (RMF) artifact design, generation, and compliance. Experience with STIGS, SCAPs, eMASS.

Software Manager I / Senior Software Engineer II
Raytheon, El Segundo, CA
June, 2001 - May, 2020
- Section Manager, Software SPL (Software Project Lead) / IPTL (Integrated Product Team Lead), EV Certified Cost Account Manager (CAM), Scrum Master, and Chief Scrum Master (Scrum Master of Scrum Masters) for Multi-Function System Services (MFSS) Tactical EO/IR Systems (TES) Software. Hired and on-boarded 24 people in < 3 mo. Acted as Scrum Master for Core scrum team and Chief Scrum Master over 6 scrum teams, over more than 30 software engineers in a DevSecOps Scrum@Scale environment. Educated Program and Functional management on Agile Scrum practice and how to scale effectively. Software proposals, Cost Estimation, Basis of Estimate.
- Collaborated closely with Systems, Hardware, and IT on requirement definition, refinement, and mapping from DOORS to the entire Atlassian Project Management software suite stack.
- Tech Lead and Scrum Master on NGJ (Next Gen Jammer) threat simulation and visualization team. UDP, TCP, and DLL interfaces to various signal generators, test equipment, and external software CSCIs from core/plug-in architected thick client C# application.
- Tech Lead on ASARS (Advanced Synthetic Aperture Radar System) DCGS (Distributed Common Ground System) APS (Advanced Processing Segment) Modernization effort. Individual technical contributor while tasking and mentoring staff members new to the program
- Designed, developed, tested, deployed, supported (field and remote), and maintained Java, C, and C++ situational awareness, mission planning, and ground station software on the ASARS and DCGS programs across Windows, Linux, and Solaris servers and workstations
- Created, designed, developed material from scratch, and taught software center wide Advanced Technical Education Program (ATEP) Introduction to Java Programming, Agile for Teams, and C/C++/Java Secure Coding course as lead instructor in El Segundo and Fullerton in-person and remotely to Goleta and Texas

- Parsed, validated, formatted, and created XML using Java SAX, DOM, and Apache XMLBeans Utilized Google protobuf publishers and subscribers over Apache ActiveMQ topics as an IPC across platforms, OSes, and languages
- Architected and implemented a MySQL database to represent and search across tracker results with a C# front-end calling legacy C++ code from C# using a managed DLL using Agile development methodology
- Designed and implemented a suite of glue-ware Java processes to bind together various disjoint systems designed by different companies for geo-registration software using JNI and TCP, UDP custom sockets

Part-time Lecturer
University of Southern California (USC), Los Angeles, CA
Sept. 2019-Present
- Refined and presented lecture material for ITP-365: Managing Data in C++, ITP-216: Applied Python, ITP-115: Introduction to Programming in Python, and ITP-265: Intro to OOP in Java to multiple sections of 60+ students per semester in a collaborative faculty teaching environment
- STL and JCF Data Structures, Sorting, Searching, numpy, pandas, beautifulsoup, matplotlib, flask, scikitlearn

EDUCATION
University of California, San Diego (UCSD)   2004
- B.S. Electrical Engineering, depth in Software Systems