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### Objective:

Leverage development and team leadership experience to fill a leadership and mentorship role in a mature software development organization focused on sophisticated data analysis and tooling.

### Summary:

- Over 20 years of professional software development and architecture experience across a range of industries:
  - 8 years Oil and Gas, with focus on Project Controls Automation
  - 8 years military intelligence, with focus on signals and language analysis
  - 4+ years boutique web/database, with focus on e-commerce, e-learning, and enterprise integration
- Proven leadership thorough military service and community involvement
- Professional experience with:
  - Java, Python, SQL, PHP, Perl, Ruby, Tcl/Tk, VBA.
  - MySQL, MS-SQL, SQLite, Postgres, MS-Access relational database management systems.
  - Object, Functional, and Relational design paradigms.
  - Linux and Microsoft stacks for web-based, desktop, and command-line application delivery.
- Eligible for Top Secret/SCI (clearance lapsed)

### Relevant Professional Experience:

#### Project Controls Specialist (Automation)

Fluor

September 2012 – Present

Designed, built, and maintained SQL-based Python-driven automated reporting and analysis platform for change management, cost, performance, and budget control over services, procurement, and contracts. This enabled a project-controls team sized for one project to handle dozens of concurrent projects conveniently.

Developed numerous one-off data transformation, analysis, and formatting scripts for infrequent-but-complex operations on large data sets, generally saving multiple man-weeks vs traditional approach: examples include recasting 80,000-record instrument index to new data format; allocating indirect-charge budgets to construction contracts through a multi-variable linear estimate-data model; and producing time-phased engineering-service back-log estimates based on current activity and staffing levels for an added branch office.

Built and trained users on bespoke database tools to track and report on progressive regulatory certification of engineered goods: this yielded consistent oversight, process, guidance, messaging, and focus on areas of most urgent need; and ultimately a successful effort to certify the largest offshore oil drilling and production platform in Canada.

Expedited interactions between Project, Certifying Authority, and Regulatory Body; reducing average turn-around time for regulatory queries/deviations by 68% compared to prior phase. Revised regulatory queries for structure, style, and clarity: this accelerated disposition of affected queries. Educated engineers and procurement teams on Project's certification process through in-person communication and production of targeted quick-reference materials. Moderated weekly meetings between Certifying Authority and Project's engineers in multiple disciplines: this efficiently brought parties to common understanding, thus resolving Certifying Authority concerns and enabling progress of design verification.

#### First Class Petty Officer

United States Navy

May 2004 – July 2012

#### Cryptologic Technician/Interpretive

Developed, deployed, and maintained software facilitating geospatial analysis, linguistic feature analysis, transcoding, translation, and certain statistical methods applicable to the cryptologic mission. Selected and carried out statistical tests to identify irregularities in megabytes of historical measurements: this gained vital insights into the features of this data.

Trained subordinates to perform the duties of a language analyst for Naval Security Group Activity Kunia  
Wrote and delivered signals-intelligence reports to fleet, theater, and national-level commanders. Translated Korean language materials into English.

Managed administrative needs of ~70-member team of language- and radio/signal-analysts. Trained new members on all duties of a language/intelligence analyst. Organized, coordinated, and executed 18 monthly leadership development courses for promotion selectees: topics included general leadership, communication, command ethics, and personal finance.

**Senior Programmer**

**Avatar Technology**

June 2000 – July 2003

Allocated and delegated the work of software teams consisting of senior programmer, user-interface specialist or graphic designer, quality/test engineer, and deployment/network engineer for a boutique web development firm. Wrote computer code in Java, PHP, JavaScript, Python, and Ruby. Analyzed transactions and use-cases for new and updated applications. Designed database schemas and wrote appropriate SQL queries for MS-SQL, PostgreSQL, and MySQL. Evaluated and selected operating systems, web and database server software and hardware, and e-commerce APIs according to client needs. Designed and enforced source code version control and branching policy. Reviewed code for both business logic and security. Built or enhanced systems for e-commerce, symbolic and statistical data analysis, conference registration, computer-based training, inventory management, logistics, and communication for a wide variety of corporate and institutional customers.

**Education:**

Bachelor of Science, Computer Science (Cum Laude) – Hawaii Pacific University – 2010

Associate of Arts, Korean Language, Defense Language Institute, 2006

**Professional Associations:**

Upsilon Pi Epsilon (Computer Science Honor Society, Hawaii Pacific University chapter) – since 2010