

Beth Kjos
Sugar Land, TX
Willing to Relocate

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Objective:

Leverage long experience in software development and technical support along with prior Naval service to fill a team-leadership and mentorship role in a mature software development organization focused on quality.

Summary:

- Over 25 years of professional software development and architecture experience across a range of industries:
 - 5 years Financial Technology, with focus on Tradeable Indices and Hedging
 - 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 through military service and community involvement
- Eligible for Top Secret/SCI (clearance lapsed)

Skills:

- 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.
- Organization and leadership

Relevant Professional Experience:

Python Software Developer
Quantitative Execution Services

JP Morgan Chase
Houston, Texas

February 2021 – Present

Lead the effort to design, create, deploy, and support new signal-driven strategy framework, enabling the bank to expand its market-leading real-time tradeable index business into new markets and asset types (e.g. commodities, stocks, and options) while significantly decreasing time-to-market for new strategies and increasing the flexibility for more complex rule-sets.

Spearheaded several major improvements of market-data monitoring infrastructure, both to support external changes (e.g. migration from OneTick to CrossTick/Andromeda tick-base) and to improve quality-of-life by automating intelligent support actions (e.g. multiplexing to the best current data source considering latency, variability, and business continuity.)

Mentored junior developer colleagues in designing, testing, documenting, implementing, and supporting well-structured modular systems; communicating effectively with stakeholders; and exercising professional ethics.

Drove test-driven development, 5-whys root cause analysis, and other reliability-focused practices.

Improved existing code to decrease burdens associated with support, understanding, and the development of new features by reinforcing proper design principles.

Evaluate potential new-hire candidates.

Project Controls Specialist (Automation)

Fluor Enterprises
Sugar Land, Texas

September 2012 – January 2021

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
Cryptologic Technician/Interpretive

United States Navy
Wahiawa, Hawaii

May 2004 – July 2012

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 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
Austin, Texas

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

Associate of Arts, Korean Language, Defense Language Institute

Professional Associations:

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