GABRIEL PETTUS

Denver, CO 80205
Phone: 303-243-2460 | Email: gabe.pettus@gmail.com
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About Me

I am an experienced systems engineer with a bachelor's degree in physics and mathematics and have nearly completed a full stack development bootcamp at the University of Denver. I am looking to shift my career focus to software development as a mid or junior level developer. I have extensive hard (HTML, CSS, JavaScript, Perl, Shell scripting, SQL) and soft skills (communication, teamwork, adaptability, problem-solving, leadership). I have experience with every aspect of software lifecycle in Agile, Kanban, Waterfall paradigms. I have made significant design contributions leading to several multi-million dollar contracts. I have repeatedly been recognized by my pears and management for outstanding performance. I am currently seeking a diverse professional home in which to collaborate on elegantly-designed technologies that will enrich the lives of others.

Employers

Senior Systems Engineer, Feb. 2019 - Current

ICR Inc, Aurora, CO

As one of only a few systems engineers at ICR, I provide demos and facilitate discussions with senior and junior customers. Provide leadership on software team to ensure and software and schedule goals are met. Work with software teams to ensure a customer focused and design. I assist the business develop teams on white papers and proposals. Currently my primary focus is to document the existing baseline and cultivate relationships with external system with whom we would like to interface.

Senior Systems Engineer, Nov. 2013 - Feb. 2019

CACI/BITSystems, Aurora, CO

As both a team member and baseline lead on several waterfall, AGILE and KANBAN development cycles I was responsible for (and executed) tasks at each stage of the software development process including: initial design and proposal/negotiation; requirement development; schedule and team planning; scrum management; Documentation (interface control documents (APIs), Test/Training plan and materials, evidence of security compliance); integration coordination; witness execution of testing; execution of training; delivery and integration support.

Senior Systems Engineer 2 with Honors (last position), May. 2001 - Nov. 2013

Raytheon Company, Aurora, CO

I started providing embedded 24/7 support to operations. I worked closely with operators, customer representatives, and our software team and the factory to troubleshoot and document problems. Additionally, I developed and maintained a script (PERL, SQL, HTML, JavaScript, csh, bash) baseline to supplement operational needs which were not met by our software. I finished my career at Raytheon working on test on integration teams.

.Experience

◦ Development

- Develop and maintain custom web tools and automated reports using PERL/CGI/email
- Implement interface control document defined interfaces using SQL*Plus, PERL, shell scripts
- Create and maintain tools to parse external system data and populate operational database using SQLPLUS and Perl/SQL
- Create and maintain tools to assist users in streamlining their work flow and with performing daily analysis tasks
- Create and maintain shell scripts to migrate data to and maintain offline test, train and analysis environments

◦ Design

- Analyze data and data model to optimize data-driven solutions to functional and performance problems
- Advocate for user and customer needs in an "Agile Product Owner" capacity
- Organize, set up, and facilitate technical engineering meetings with users to evaluate design and meetings to evaluate and incorporate feedback for new functionality
- Present technical designs and proposed concept of operations changes to users through presentations, interactive discussion, and hands-on demos throughout the maturation of the software
- Coordinate with external systems (often from direct competitors) to design and/or implement both documented and undocumented interfaces (APIs : RESTFul, SOAP, XML, JSON, XDR, binary)
- Creation of new, and modification to, interface control document-defined interfaces to meet technical needs of all stakeholder systems
- Determine interface needs and performance requirements with software team
- Work with customers, users, external systems, and software team to determine and document technical design for enhanced and new software capabilities including integration (and incorporation) of external systems
- Develop concept of operations for both internal processes as well as the overall system
- Modify and create existing software requirements in order to capture new or modified software functionality
- Data creation and environment management for software test suites, including coordination with external systems

◦ Integration

- Coordinate with customer sites leading up to installation events in order to ensure site systems engineering and users are satisfied that preparation, prerequisites, and logistical needs are meet
- Coordinate with customer, user, and site leadership during software integration to ensure minimum impacts during multi-site software installations
- Provide ongoing support to operations in the form of technical troubleshooting, impromptu training, data migration before and during operational readiness demonstration periods, typically lasting 4-6 weeks
- Provide onsite installation support
- Support site system administrative teams as needed
- Coordinate with site system engineering, integration, and operation teams to ensure timely installation with minimal impacts to operations
- Coordinate with external systems at TTO for interface checkout

◦ Operational baseline maintenance

- Provide in-person and phone support to users and maintenance to evaluate and troubleshoot operational problems
- Document software deficiencies
- Coordinate software deficiency solutions with users, customers, and software team
- Provided 24-hour support (phone and call-in) to high-priority operational systems
- Analyze and troubleshoot software, interface, and processes
- Generate and manage software deficiency documentations
- Provide customer representation for new projects as a subject matter expert and advocate for operations

- Perform system monitoring, analyzing and documenting performance and conducting trend analysis as required

○ <u>Training</u>

  - Develop course material for presentation and exercises to address new and existing functionality
  - Teach courses to users of different experience levels in formats including lecture, classroom, hands-on exercises, impromptu demos and "side saddling"
  - Develop and present program-specific training for new hires

○ <u>Training</u>

  - Create and execute test procedures at a capability, system, interface, regression and requirement level for internal evaluation
  - Create and execute customer-witnessed test procedures focused on proving software satisfies functional, interface, and performance requirements

○ <u>Management</u>

  - I have been recognized for my ability to bridge strong personalities and build team consensus
  - My methodologies for proposal reviews have be adopted as company wide best practices
  - I have been repeatedly recognized for my attention to detail
  - Ensure that baseline meets customer-mandated process, milestones (tied to award fee), and technical requirements, and that baseline will be accepted by the users
  - Mentor of junior engineers

Education & Certifications

- **Bachelor of Science:**

  Metropolitan State College of Denver. (Now Metropolitan University of Denver)

  Mathematics and Physics Double Major

- **Certificate (in progress): University of Denver**

  Full Stack Web Development Bootcamp

- **Certificate: CompTIAA Security+**