

Sam Gebra

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SOFTWARE ENGINEER

Versatile software engineer with 9 years of progressive experience in C/C++, Python, SQL, and System Integration Engineering. Developed, implemented, and maintained a complete cloud-based software system which automated several hours of operations by efficiently processing and analyzing large datasets (upwards of 600MB daily), delivering continuous and valuable insight, saving department 14 hours on average per day. Managed and worked with an excellent team of engineers at all organizational levels and diverse backgrounds, maintaining pre-existing script frameworks. Equally successful working independently on time-sensitive projects and tasks. Willing to participate in a government clearance investigation.

KEY SKILLS

C/C++ | Python | Java | SQA | JavaScript | React | Node.js | Angular | SQL | PostgreSQL | Web Development | Django | RESTful API | Selenium | C# | Make | Maven | Gradle | NLTK | PyTorch | Computer Vision (OpenCV) | AWS | RTOS | Robotics | UAV / UAS | Automation | Ansible | Kubernetes | Unit Test | Linux | RHEL | GTK | Bash | Docker / Podman | Open vSwitch | Pandas | NumPy | Matlab | Git | JIRA | XR Development | Jenkins | Anaconda | CI/CD

CAREER EXPERIENCE

Leidos, San Diego, CA, USA

February 2024 – June 2024

Software Engineer

- Set to revamp CUI legacy C++ code. Acquired additional certificates to assist with my tasks at TSET (Training Systems Engineering Team): A+, Network+, Security+, CCNA, CISSP

Qualcomm Technologies, San Diego, CA, USA

June 2015 – December 2023

Software Engineer

- Led the android tech-areas meetings, identified new FRs (Feature Requests) per new Qualcomm chipset target, promptly updating the software framework (to accommodate the new features) improving productivity by 30%.
- Solely developed a cloud-based complete software system (frontend & backend), implemented continuous integration and delivery pipelines to automate several tasks previously done manually. Produced unified platform with UI, and backend server, increased productivity by 1800%.
- Designed flight-logger software for Qualcomm UAV, records flightpath captured through sensors data-feed streamed over ROS and output the coordinates both in real-time and as JSON file to emulate previous flight failures, improving issue-reporting by 30%.
- Re-customized pre-existing framework-script to specific case scenarios for debugging efforts, pinpoint issue root-causes and reduce resolution cycle time by 50%.
- Maintained the Qualcomm cloud database and network infrastructure for APT department, improved queries caching algorithms reducing query-response delay by 90%.
- Managed over 200 servers (each has prototype android-platform-chipset connected), streamlined systems upkeep, bring-up upon failure and validation continuously for uninterrupted operations, upgraded farm size and overall capacity and effectiveness by 40%.
- Utilized MLOps (Machine Learning Operations) practices and trained, fine-tuned and deployed NLP AI models using Transformers, TensorFlow, and NLTK to generate human-like responses, optimize conversational performance and improve user experience, with low perplexity scores achieving high language processing efficacy and accuracy rate of 90%, handling up to 2000 user queries per day.
- Applied DevOps principles to improve MTBF (Mean Time between Failure) from less than 1 hour to over 50 hours through various software feature integration and environment set-up(s) creating and executing test scenarios interacting in a team environment with system developers. Identifying 12k CRs (Change Requests) per snapdragon chipset-target SoC (System on a Chip).
- Calibrated and utilized the UAV motion-capture arena, calculated error-margin for the drone flightpath. Published a bi-weekly report of over 200 test cases focused on the snapdragon navigator's parameters, API functionality, internal cameras, flight control, and event logger.

EDUCATION

Master of Science (M.S.), Computer Science (Software Engineering), National University