

David Edwards
Software Engineer
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Objective: To secure a software engineering position in a dynamic organization where I can utilize my 15+ years of experience in software development, experience in backend C++, Python coding and debugging, and proven ability to develop high-quality software applications, preferably on-site or hybrid near the Los Angeles, CA area.

JOB RELATED SUMMARY:

- Accomplished Software Engineer who holds Bachelor's Degree in Computer Science from California State University completed 2014.
- Core languages experience: C/C++ 6 years, Python 10 years. Java 6 years.
- 10+ years experience with Git and Subversion repository code version control system.
- Agile Development Methodologies / Scrum team project development.
- Project experiences include creating dynamic web/mobile applications using: HTML5, CSS3, SQL/NoSQL, Java, Python, React.js, Node.js, MongoDB REST Web API framework integrating codebases running on UNIX/Linux and Windows platforms.
- Python backend, API and GUI tool developer. 18+ years Linux OS experience.
- 4 years experience in embedded systems programming microcontrollers.
- Familiar with Matlab to develop Simulink models and observe the output, M-Files, simple GUIs.
- US Navy Veteran 6 years as Aviation Electronics Technician Supervisor.
- Verification & Qualification Testing – MIL-STDs.

EDUCATION

Bachelor of Science in Computer Science, California State University, Los Angeles, CA 2014
Logical Operations Master Mobile Application Developer (MMAD), ABCO Technology Institute - Nov 2020
Associates of Computer Science, San Diego City College, CA 2009

PROFESSIONAL EXPERIENCE:

Rogerson Aircraft Corporation, Irvine, CA **Oct 2025 – Current**
Software Engineer

- Software documentation, design, development, testing, and coding for current, modification, and new development programs.
- Utilize current S/W tools and mentor peers on usage.
- Generation of Software requirements, Test procedures, Code, Test, and verification.
- Generation of Software documentation and reviews.
- Ensure all regulatory agency and contractual guidelines related to software development are followed.
- Project status reporting as required.
- Program Responsibilities.
- Design, Development, Integration.
- Installation Interface.
- DO-178 Compliance Updates.

YouGlow Wellness & Spa, Torrance, CA **Nov 2024 – Current**
Manager IT Systems

- Manage technology infrastructure and corporate website.
- Planning, directing, and coordinating the computer-related activities of an organization, overseeing the installation, maintenance, and operation of computer hardware, software, and security systems to meet business objectives.
- Key responsibilities include assessing IT needs, managing IT staff, ensuring system security and performance, developing IT policies, budgeting for technology, and supporting users.

- Monitor vendors, implement disaster recovery plans, and stay updated on technological advancements.

GlobalLogic/PPG Avionics, Remote
C++ Qt Engineer

Sep 2024 – Jan 2025

- Developed and debugged GUI applications with C++/Qt to enable Wi-Fi features for data transfer and logging.
- Implement C++ Qt code to enable WIFI status: searching/connected. Implemented Qt code to emit and transfer logging data from MCU USB microcontroller via Wi-Fi signal using Qt interface on WinLogic platform.
- Designed test tools to verify NVM memory settings and transfer hex data from MCU devices.
- Delivered code migration from Qt5.15/C++14 to Qt6/C++17, ensuring stability and compatibility.
- Enable read, test to verify correct NVM settings of Non-volatile memory.
- Used Git for version control and produced comprehensive technical reports with recommendations for future development.
- Applied MIL-STDs guidelines in qualification and verification testing for avionics software, ensuring compliance with aerospace industry standards and regulatory requirements.

Qualcomm, San Diego, CA
Software Engineer

Jun 2020 - Jun 2023

Open Source Content Compliance:

- Enterprise Git version control, Jira/Confluence project management for issue/ticket tracking and feature requests. Weekly Agile Scrum meetings storyboarding for roadblocks, tracking backlog issues with stakeholders.
- Reviewed in-house developer code for embedded device updates of modem, GPS, Wi-Fi, Camera, Bluetooth releases for Android and Apple OS running Qualcomm Snapdragon SoCs.
- Develop, maintain, and operate software scanning automated tools using Python, C, C++, Docker containers, and Bash scripts.
- Developed and maintained open-source compliance review automation systems.
- Built from scratch a frontend React.js, MongoDB REST API framework with custom routing to application framework to automate curating and managing Software Bill of Materials (SBOM) report generation lowering manhours from manually entering data dedicated to this process from 80% to 20% by automating generating SBOM spreadsheet reports for end-clients.
- Built tools in automation to support testing and verification of large codebases that streamline development processes utilizing C/C++, Python, YAML, Docker, MongoDB, Linux/Scripts (Python, Bash, JS), JavaScript, Node.js, React.js, other JS variants.
- Overview embedded software product development lifecycle of Open Source Systems for Android, Linux, Arm, Kernel, GNU.
- Reviewed in-house developer code for open-source compliance, supporting engineering teams in managing open-source compliance.
- Manage consumption, usage, and distribution of open-source software for Qualcomm.
- Work closely with legal on licensing and compliance issues.
- Manage High-risk open-source projects.
- Vetting Android, Embedded, Web Tech, and Chromium software to ensure it adheres to the legal guidelines and for possible open-source license violations.
- Training and guiding teams on how they can be more active contributors to the open-source projects.
- Develop automation tools and processes that help engineers and service teams to meet the licensing requirements in their open-source code.
- Build automation tools to enable and speed up software review processes.
- Work closely with build and integration teams.
- Scanning and analysing code and linkage between modules.
- Work closely with developers to develop architecture review.

Saatchi & Saatchi, Torrance, CA
Python 3D Developer

Sep 2015 - Aug 2019

- Developed in-house tools and scripts supporting graphic artist team developing HD image rendering animations from CAD data of Toyota model vehicles for display in media advertisements using Python, YAML, PyQt, PySide and JavaScript in Maya, Nuke, Shotgun and Photoshop.

- Built Docker websites for internal project management to coordinate multiple projects between our team of designers and codebase maintainers. Prototyped in Flask to rapidly implement custom application routing features.
- Maintained Python codebase connecting Postman, RabbitMQ, and Deadline hooks/exits for Autodesk Maya, The Foundry Nuke, Shotgun Software, and Thinkbox Deadline.
- Enterprise GitHub version control, YouTrack project management issue/ticket tracking and feature requests. Weekly Agile Scrum meetings storyboarding for roadblocks, tracking backlog issues with stakeholders.
- Evaluate and test new applications, software, and workflows to improve production.
- Developed an automated ingestion system of build data sheets for annual garage CAD data from Japan in Unreal Engine creating augmented virtual reality XR/VR animation projects in C++, showcased on YouTube at [Dr. Kaku's Microcosmic Journey Through Mirai | 360 Video](#).

DIRECTV, El Segundo, CA

Apr 2015 - Aug 2015

Software Engineer

- Wrote scripts responsible for talking to pieces of communications and satellite equipment using Java and Groovy in UNIX and Windows operating environments heavy command-line work in Red Hat Linux.
- Built front-end UI to monitor and maintain cable TV network traffic in JavaScript, Ruby, Groovy, Scala, Python, Perl.
- Worked with SOAP and REST web services using a combination of third-party products and Groovy.
- Designed and debug scripts and applications in Groovy and Java distributed network/computing environments and standard communication protocols REST, JMS, JMX, Web Services, SOAP, HTTP, SNMP.
- Ensured that software development efforts comply with coding standards and software version control.
- Participated in all cycles of the testing phase to validate code, including unit testing, subsystem testing and end-to-end testing.
- Provided engineering support for test execution and initial production deployment including interfacing with other engineering teams.
- Identified technical issues in production and recommended appropriate approaches and solutions.
- Communicated with system users in production to resolve system vulnerabilities and weaknesses.
- Provided information efficiently to all management levels on ongoing issues, project activities and progress.
- Collaborated with offshore teams to support project development work.
- Jira project management, Subversion (SVN) version control.

theAudience.com, Los Angeles, CA

Nov 2014 - Apr 2015

Python Developer/Data Analyst

- Built Docker REST API applications to query and present data from MongoDB for internal report generation referred to by sales/data analyst teams.
- Developed from scratch applications in Flask to quickly prototype APIs to be deployed in Docker containers on AWS instances.
- Created data collection python API running on Amazon Cloud Web Service/AWS EC2 Tier 2 to collect, store, post and maintain social media accounts for Fortune 500 companies providing data analysis and insights of information determined from organic engagement of users on all social media APIs.
- Designing custom applications routing in Flask with YAML, deployed on Docker containers with YAML docker-compose. Configurations and data exchange formats using JSON or YAML.
- Development environment enterprise Git for version control, Agile Scrum development for sharing storyboarding, updates, roadblocks with stakeholders.
- Maintained and extended internal APIs servicing collected data over AWS EC2 cloud instances to internal applications for report generation tools.
- Worked with other development, analytics and sales teams to create client facing reports.
- Enterprise GitHub version control, project management for issue/ticket tracking and feature requests. Weekly Agile Scrum meetings storyboarding for roadblocks, tracking backlog issues with stakeholders.

US Navy · Contract, Greater San Diego Area

Sep 2000 - Aug 2006

Aviation Electronic Technician Supervisor

- 2nd Class Petty Officer at Coronado Naval Base.
- Westpac Deployment aboard USS Tarawa LHA-1, 32nd St. Naval Base.

UPS Supply Chain Solutions, Tempe, AZ

Feb 1997 - Sept 2000

Hardware Support Technician

- Validation & Verification Testing of Requirements, System and Regression Level Testing, Test Report Preparation, and Software Test Estimation.
- Develop and implement tools to support analysis of UPS desktop shipping tools, support and implement Test Automation features for software test team.
- Troubleshoot escalated technical issues with end-customer on desktop remote support systems.

INTERNSHIPS AND PROJECTS

General Motors, Los Angeles, CA

Jan 2014 - Jun 2014

QT/QML/C++ GUI Developer

- Developed board support package (BSP) on GUI interface display systems for an embedded system which runs C++ on a Freescale i.MX 6 Sabre ARM board.
- Performed bring-up for embedded FW on Linux kernel to interface C++ CAN signals communication over vehicle's CAN bus system.
- Used a custom Linux kernel to program the Freescale board with C++ to transmit and receive.
- Developed user interface in Qt QML library to create software-based controls that replace radio and climate control mechanical buttons while continually displaying live diagnostic data signals.
- Read and write CAN signals from the car, translating them using a Linux driver, and implemented in QML, C++ to display interactive touch screen controls on the vehicle display console.
- Tested onboard program inside vehicle with live controller area network signals.
- Debugged onboard program through serial cable.
- **Project Website:** <https://csns.cysun.org/departement/cs/project/view?id=4556961>

Boeing Company, El Segundo CA

Aug 2013 - Dec 2014

Test Framework Developer

- Built a test framework to automate testing for Boeing 702SP operations satellites by developing a system in Java and Python that automates the conversion of TCL/Tk-encoded test cases into Sikuli-readable JSON using the Java ANTLR parser.
- Test framework gathered INS data from GPS/GNSS satellite system to analyse and automate satellite simulation.
- Ensured defence and aerospace compliance standards, including MIL-STDs, DO-178C, DO-254, and AS9100, applied in verification, validation, and qualification testing.
- RTK and PPP-RTK data was analysed and accuracy compared to TCL/Tk test cases to confirm and/or determine necessary INS improvements required for optimal system accuracy and performance.
- Identified and extracted test cases from TCL/Tk and Perl scripts using ANTLR into an interactive user interface in Java's JGraphx API for test engineers to select test cases, then using Sikuli, a GUI automation tool that was used to replace the test engineer, automate the process on the satellite simulator and produce a log report for later review.
- The final result was successful in optimizing testing, while saving Boeing Company time and money.
- **Project Website:** <https://csns.cysun.org/departement/cs/project/view?id=4556960>

LICENSES / CERTIFICATIONS

- Logical Operations Master Mobile Application Developer (MMAD), ABCO Technology Institute - Nov 2020
- Mobile Application Development certification - (Android/iOS hybrid)
- AWS Educate Introduction to Generative AI - Amazon Web Services (AWS) Issued Jun 2024
- Embedded Systems and C – TestDome - Issued Apr 2024
- Accredited Project Manager (APRM™) certified – 2019
- OSHA 30 licensed - Oct 2019
- FCC (Federal Communications License) with GROL endorsement – 2003
- Advanced Fiber Optic Installation Technician License - 2003