Albert Tran

https://www.linkedin.com/in/albertht | 520.250.5594 | alberthtran@protonmail.com | https://github.com/alberthtran

Skills:

- JavaScript | Python | C++ | C | Vue | Vuetify | Pinia | SQL | Node | Express | TKinter | Grapes | LUNR | C#
- Jest | Cypress | Gitlab API | OAuth2PKCE | JSON | YAML | CI/CD | HUGO | Sequelize | NPM | Vale | Lint
- Docker | Kubernetes | Postman | Mockaroo | Objective-C | VxWorks | Embedded | TCP/IP | VME | Image
- Full-Stack | Microservices | iOS Application | RTOS Application | Radar/DSP | Electrical Engineering

Professional Experience:

Software Engineer   **Revacomm**   Honolulu, HI   **2021 - Present**

- Designed and developed two Python applications for Platform One Information Technology team, streamlining the help desk service process and improving the speed for addressing thousands of customer issue tickets by 20%
- Architected and implemented a technical documentation website for enterprise-level CI/CD system, serving as hosting platform for customers' static websites. This website is utilized daily by the entire organization and external customers.
- Led the development team to implement core components for a Content Management System application, integrated within a CI/CD system to enable customers to create code-free websites, facilitating their building and deployment
- Refactored a full-stack website designed for onboarding new members within the organization. Leveraged the latest technologies such as JavaScript, Vue, Express, Node, Sequelize, MySQL, and Docker
- Developed C# enhancements for the metrics system monitoring the health status of deployed applications used for Federal Medicaid and Medicare services
- Conducted interviews with potential software engineer candidates and mentored software engineer interns

Software & Radar Development Engineer   **Raytheon Technologies**   Tucson, AZ   **2003 – 2021**

- Led a team of 15+ engineers in integrating and testing the standard missile software program, successfully conducting Flight Qualification Test (FQT), and collaborated with senior system engineers to formalize the release of the software
- Developed an automation test framework utilizing Jenkins and Raytheon Missile Test Suite. This framework automates scenario runs, telemetry collection, and analysis presentation generation for FQT scorings, resulting in a 40% improvement in software verification. Widely adopted by other significant missile programs.
- Collaborated directly with the Chief Engineer and senior DSP engineer on an innovative R&D project. Successfully implemented and tested the design prototype, leading to winning over a million-dollar DARPA contract.
- Played a pivotal role in developing two radar testbed systems right from their inception. These systems facilitated seamless data communication in the Chassis with TMS-650 DSP systems, demonstrating real-time Synthetic Aperture Radar (SAR) maps operation and aiding in securing additional program funding.
- Developed numerous C++ programs with VxWorks board support packages (BSP). These programs encompassed various functionalities, including data communication (PCI, TCP/IP, UDP, VME, Fiber), establishing real-time processes via tasks spawning, setting up interrupts/semaphores, managing data sharing, telemetry collection, time alignment among PowerPC processors, and executing DSP and radar algorithms

TECH Talk – Aerospace Software Development   **University of Hawaii**   **2023**

- Presented to computer science students and faculty, discussing software development for advanced air defense systems and web development topics
- Covered subjects such as embedded programming, software architecture, the software development life cycle, various testing types (SIM, Unit test, CIL, HIL, Flight tests), telemetry collection, and performance analysis

Web Developer   **Chinese Cuisine Restaurant**   Los Angeles, CA   **2005 - 2009**

- Developed a website for a Chinese Cuisine restaurant enabling customers to browse the menu and place orders online

iOS Developer – Money Calculator +   **Self**   **2011 - 2012**

- Developed iPhone app enabling users to create shopping lists, rate restaurants via social media, and perform calculation

Education:

M.S. Electrical Engineering (GPA: 3.61)   **University of Southern California**   **2001 – 2003**

B.S. Electrical and Computer Engineering   **University of California, Los Angeles**   **1996 – 2001**