

# Albert Tran

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## Skills:

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

## Professional Experience:

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

- Working on a project to implement C# and .Net to enhance the metrics system monitoring the health status of applications deployed across multiple Kubernetes clusters, used for Federal Medicaid and Medicare services
- Designed and developed two Python applications for 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 team in implementing core components for a CMS application integrated within a CI/CD system. This enabled customers to create website content without coding, build its GIT repository, and deploy the site in under 15 minutes.
- Refactored core features in a full-stack website designed for onboarding thousands of new members within the organization. Leveraged the latest technologies such as JavaScript, Vue, Express, Node, Sequelize, and Docker
- Assisted in drafting technical sections of proposal reports, conducted interviews, and mentored software engineer interns

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

- Led a team of 10+ 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
- Helped to develop 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. 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 covered a wide range of functionalities, including data communication (TCP/IP, UDP, VME, Fiber), creating multi-threads via tasks spawning, configuring interrupts/semaphores, managing data sharing, telemetry collection, aligning time among PowerPC processors, modifying VxWorks bootloader to enhance Flash/RAM, 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 such as embedded programming, software architecture, the software development life cycle, and various testing types

**Advanced DSP Project – Eye Pupil Tracking Device**                                      **University of Southern California**                                      **2003**

- Developed C program to detect and track a person's eye pupils' movement in real-time to move the PC mouse cursor

**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**