

# 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 Application | RTOS Application | Radar | DSP

## Professional Experience:

## Software Engineer

**Revacomm**

Honolulu, HI

## 2021 - Present

- 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
- Developed C# enhancements for the metrics system monitoring the health status of deployed applications used for Federal Medicaid and Medicare services
- 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 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