

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

- 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 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