Jimmy Seto

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SKILLS

- **Software Programming:** C, C++, Typescript, JavaScript, MongodB, Express, Angular, Node.js
- **Software Tools:** Windows/Linux/Unix OS, VMware, Git, Visual Studios, Cygwin, PowerShell, Bash Scripts, Vim
- **Hardware/EE:** VHDL, Arduino, Breadboard, Soldering, Oscilloscopes, Cisco Switches

WORK EXPERIENCE

Raytheon Technologies   **Dec. 2019 – Present**
Software Engineer II (Embedded C, C++, RTOS, GPS Receivers, Git, Jira, Agile/Scrum, Windows OS, PPC 464)   *El Segundo, California*
- Developed a messaging middleware layer to enable gps receivers to send collected GPS data (Position, Navigation, Time, Tropospheric, and Ionospheric data) over UART
- Developed and updated existing APIs to allow commanding a gps receiver to perform different operations such as Signal Acquisition & Track, Measurement Corrections, and modes of operation
- Created scripts to automate test setup. Added tests to ensure full code coverage and tested using VectorCast

Raytheon Missile Systems (TSSC)   **Nov. 2018 – Dec. 2019**
Software Engineer II (Windows OS, System Troubleshooting, Documentation, Cygwin, Bash Scripts)   *Tucson, Arizona*
- Automated the setup/configuration of computers using bash scripts that are used to run test code for standard test equipment
- Troubleshooting and maintaining the telemetry ground test equipment (L3 Avalon, SQL Databases, Java middleware)
- Software Design Documentation for standard test equipment using flow and model-based diagrams

Daifuku America (Semiconductor Transport Systems)   **Nov. 2016 – Feb. 2018**
Controls Engineer (Customer Support, Technical Writing, Prototyping)   *Chandler, Arizona*
- IoT Prototyping and development using Java and C++ with Arduino development boards and sensors
- Wrote and presented technical documents, manuals, and datasheets outlining system hardware, software structure, and network topology. Coordinated with Intel and Japanese Engineers overseas.
- Troubleshooting and analyzing data from Daifuku's Storage Machines using tools like Matlab and Excel

PROJECTS

VoiceGengo.com *(MongodB, Express, Angular, Node.js, Stripe Payments, OWASP, Socket.io)*   **Dec. 2020 – Present**
- Designed and developed an online social tutoring website to help with Japanese and English language pronunciation.
- Frontend – Image Cropper, Calendar Time and Scheduling, Voice Recording, Sentence Parser, Forms, English and Japanese Language Localization, Mobile First Design, Google Charts, Youtube API.
- Backend – API Endpoints, JSON Web Tokens, XSRF/CSRF, Data Validation Middleware, Emailer, Stripe Payments Integration, Chat System, Password Hashing & Storage.
- DevOPS – Deployed on Google Compute Engine, Encrypted using Let's Encrypt.

JimmySeto.com (Angular, Github Pages, Google Analytics)   **March 2018 - Present**
- Portfolio website housing notes and past projects. Created using Angular and Github Pages.

IoT MEAN App (Arduino, Bluetooth, Data Collection, M.E.A.N Stack, Google Charts   **March 2018**
- Created a web service that controls an Arduino microcontroller for sensor data collection in real time.

Arizona State University Department of Electrical Engineering
Senior Design Capstone Project Companion Aid (Palais Senior Capstone Design Project Competition Winner**)   Fall 2015**
- Companion Aid uses Texas Instruments CC2650 Sensor Tag to enable elderly to live on their own and gives family peace of mind. Detects falls in real-time and alerts caregivers via email. (Available on jimmyseto.com/projects)

EDUCATION

Arizona State University   **May, 2016**
B.S.E Electrical Engineering

Hobbies

- **Interests:** Learning new technologies | English Japanese translations | Cooking