

Daniel Okazaki

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WORK EXPERIENCE	Senior Firmware Engineer Western Digital <ul style="list-style-type: none">Co-lead of developer and customer logging infrastructure for whole development process using AIO with an emphasis on redundancy, reliability, and performanceCo-designed and implemented logging infrastructure and companion applications in C to parse and retrieve binary logs from disk in x86, ARM, and emulation environmentsTrained team members on log retrieval for debugging, installing and updating product application, and test infrastructure usageModified setup and build scripts in Yocto build processWorked with a cross-product team to develop custom network daemon and hardware abstraction layer in Golang to expose system functionality to a higher level REST APIWorked with a cross-product team to develop and test install, code load, update, and rollback scriptsSetup and initialized x86 and ARM blade server prototypes	July 2020 - Current San Jose, CA
	Platforms Firmware Engineer Intern Western Digital <ul style="list-style-type: none">Setup and prepared SMR drive emulation environment in QEMU for test infrastructurePorted production logging infrastructure to SPDK based applicationImplemented RPC commands to interface with SPDK applicationDesigned and implemented startup, initialization, and factory reset Bash scripts in x86, ARM, and emulation environments	June 2019 - July 2020 San Jose, CA
EDUCATION	Master of Science (M.S), Computer Science and Engineering <i>Santa Clara University, Santa Clara, CA</i> June 2020	
	Bachelor of Science (B.S), Computer Science and Engineering <i>Santa Clara University, Santa Clara, CA</i> June 2019	
TECHNICAL SKILLS	Languages: C, C++, Python, SQL, Java, Golang, Bash Operating Systems: Windows, Mac, Linux Tools/Framework: AWS(Lambda, DynamoDB, and API Gateway), Docker, Jenkins, Git, Jira Familiar: Javascript, HTML, CSS, ARM/Intel Assembly, RISC-V General: Compilers, Architecture, Algorithms, Data Structures, Object Oriented Programming, Artificial Intelligence, Database Systems	
PROJECTS	NBA Topshot Market Application Created a multi threaded application in Golang and Cadence to retrieve transaction events on the Flow public Blockchain to fill a local mySQL database. New market listings that are sufficiently below current market rates are sent to a Discord HTTP webhook for real time notifications.	April 2021
	Mechanical Keyboard Project Working with a partner to design and manufacture a custom aluminum 75% RGB mechanical keyboard compatible with Cherry MX switch variants. Creating a PCB schematic and footprint in Eagle for production manufacturing and developing on open source QMK Firmware.	January 2020 - Current
	Blockchain Research Worked with a partner to create a flexible parameterizable Blockchain framework in Python in order to analyze new chain verification schemas in comparison to proof of work and proof of stake. Helped mentor graduate students to use the framework to design a hierarchical Blockchain.	April 2019 - June 2020
	NavSense Worked with a team to create a mobile assistive device for the visually impaired using machine learning for our Santa Clara University capstone project. Built using a Raspberry Pi 3B+ and Google Coral Accelerator. <ul style="list-style-type: none">Awards: Computer Engineering Technical Excellence Award, Senior Design Presentation AwardTechnology/Tools: Python, cv2, EdgeTPU API, Intel Movidius Neural Compute SDKIEEE Link : https://ieeexplore.ieee.org/document/9033125	September 2018 - October 2019
	Santa Clara University 2017 Hack for Humanity Finalist Worked together in a group to create a website that displayed the current bills and legislature passing through the California Government. <ul style="list-style-type: none">Technology/Tools: HTML, CSS, Javascript, Web API	March 2017