Aaron T. Nguyen

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EDUCATION

University of California, Santa Cruz

B.S. Computer Engineering (Networks and Robotics), September 2017 - June 2021

- Dean's List 2018-2019
- Distributed Systems, Microarchitecture, Operating Systems, Computer Architecture, Computer Networks, Circuit Design, Algorithms and Data Structures, Logic Design, Computer Systems and Assembly.

EXPERIENCE

RStor, Saratoga, CA   June 2020 - Present

Software Engineering Intern

- Created a distributed system which load balances containerized jobs to remote machines.
- Contributed to primary repo of a real time customer facing project by adding and integrating different transport types, and created a demo to showcase software to executive team

Marine Robotics S-Lab, Santa Cruz, CA   September 2017 - February 2020

Slugbotics/Mechatronics Team Member

- Designed a multi use component used to accurately manipulate deep water objects
- Prototyped and fabricated several components from Solidworks designs to working 3D printed parts
- Competed Internationally at MATE 2018/2019

UC Santa Cruz Humanities Academic Services, Santa Cruz, CA   October 2018 - Present

Administrative IT Generalist

- Provide technical support and services for faculty, staff, and students.
- Performed hardware and software diagnostics
- Repaired and refurbished computer hardware

SKILLS

- Languages: Python, Go, C, C++, Java, Linux, Kotlin, Verilog, System Verilog, Node.js, Javascript, Ruby, Rust
- Tools: Docker, Podman, Singularity, Unix/Linux, SolidWorks, Matlab, Flask, Soldering, Circuit Design, 3D Printing, Open CV, SSL Programing Expertise

OTHER PROJECTS (github.com/AroPho)

Arduino Drone
- Designed and built a drone from scratch controlled remotely with automated features using **C++** and an **Arduino**
- Worked with a friend to develop firmware for driving motor controllers and receiving and decoding transmitter signals.

Pi Smart Home Network
- Integrated Raspberry pis to random appliances and synced each Pi together to automate and ssh to control devices, using **Golang**
- Integrated a 3D printer and Pi smart mirror into smart network
- With plans to implement Web Interface