

COMPUTER SCIENCE GRADUATE STUDENT

Santa Cruz, CA

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Education

University of California, Santa Cruz

Santa Cruz, California

M.S. IN COMPUTER SCIENCE AND ENGINEERING
B.S. IN COMPUTER SCIENCE AND ENGINEERING

Sept. 2023 - PRESENT

Jul. 2019 - Jun. 2023

Master's Thesis

OpenThread ASCON Fork for ESP32 Devices

HTTPS://GITHUB.COM/UCSC-THREADASCON

Jan. 2024 - Present

- · Removed encryption algorithm used in OpenThread (AES) and replaced it with the ASCON encryption algorithms
- · Forked and modified ESP-IDF source code to allow 802.15.4 compatible ESP32 devices to run my modified OpenThread ASCON fork

Experience

Tech4Good Lab Santa Cruz, California

LEAD RESEARCH ASSISTANT

Jun. 2023 - Dec. 2023

- Oversaw the development of an Express.js and OpenAPI server that used ChatGPT to create personalized learning curriculums
- · Helped team members write unit tests to help check the functionality of the backend server
- · Conducted in-house research studies on explore how ChatGPT can be used to automate the creation of personalized learning pathways
- · Developed the initial UI/UX flowchart for a web application used to design personalized learning experiences

Tech4Good Lab Santa Cruz, California

Web Developer Team Lead Apr. 2023 - Jun. 2023

- Used Ionic and Capacitor to create infrastructure to allow all existing Angular projects to run as iOS and Android apps
- Implemented Google OAuth login on iOS and Android using the Codetrix Capacitor Plugin
- · Wrote detailed documentation and onboarding instructions for new members to get them acquainted with Ionic

Sphinox Inc.

Torrance, California

INFORMATION TECHNOLOGY INTERN

Jun. 2022 - Sept. 2022

- Responsible for day-to-day management of company's Synology NAS, including doing weekly backups and transferring important files onto server
- · Managed Tailscale VPN that allows all employees to remotely access NAS and printers located in main office
- · Used Docker to self-host Vaultwarden password manager on NAS in order to securely store employee passwords
- Used React and Node.js to develop a simple web application to allow employees to utilize Git version control without any knowledge of version control

Skills.

Embedded Systems ESP-IDF, OpenThread

CI/CD Docker

Web Frameworks Node.js, Deno

Databases PostgreSQL, Firebase

Back-end OpenAPI, GraphQL, Express.js **Front-end** React, Angular, HTML5, CSS

Programming C/C++, Python, Typescript/Javascript, Haskell

Soft Skills Tutoring, Mentoring **Languages** English, Vietnamese

SIMEON TRAN · RÉSUMÉ