

Bryce Tsuyuki

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Education

University of California, San Diego

3.95 GPA

B.S. IN COMPUTER SCIENCE, MINOR IN POLITICAL SCIENCE

Sep. 2019 - Jun. 2023

- **Regents Scholar:** scholarship awarded to **approximately 1% of students** based on academic excellence
- **Coursework:** Software Engineering, Data Structures, Computer Architecture & Software Optimization, Algorithms

Work Experience

Amazon

Sunnyvale, CA

SECURITY ENGINEER INTERN

Jun. 2021 - Sep. 2021

- Used Amazon's **AWS CodeGuru** platform to create command-line tools to automatically detect security vulnerabilities with **Java** and **Bash**
- Automated detection of **CORS** (Cross-Origin Resource Sharing) vulnerabilities via static analysis in web applications and services
- Presented finished CLI tool to the Digital Security team, responsible for security on platforms like Alexa, Kindle, and Fire tablets
- Deployed tool to CodeGuru platform to surface potential CORS vulnerabilities across Amazon codebase

UCSD Computer Science and Engineering Department

San Diego, CA

INSTRUCTIONAL ASSISTANT

Jan. 2021 - Mar. 2021

- Served as student tutor for Data Structures I and Software Tools courses for **600+ undergraduate students**
- Taught concepts like **linked lists, stacks, binary search trees, Linux CLI, and Bash scripting** in guided lab hours and one-on-one sessions
- Graded student homework and exams for correctness, functionality, and code style where applicable
- Answered **100+ tutor request tickets** with **99% positive feedback rate**

Bay Area Cyber League

San Jose, CA

INSTRUCTOR

May 2019 - Aug. 2019

- Taught intro and advanced cybersecurity camps for **40+ middle & high school students** per week, in collaboration with 4 community colleges
- Developed, tested, deployed, and maintained online cybersecurity competitions for **400+ students** per week

Leadership

Dimensions Conference

San Diego, CA

OPERATIONS CO-LEAD

Aug. 2020 - Feb. 2022

- Led a team of **13 organizers** in planning events for the Dimensions technology conference at UC San Diego.
- Planned and hosted **4 days** of workshops, guest speaker events, panels, competitions, career fairs, and social activities.
- Audited event content to ensure it met stringent quality standards, and led volunteer teams to troubleshoot issues during the conference.

Association for Computing Machinery at UC San Diego

San Diego, CA

VICE PRESIDENT EVENTS

May 2021 - May 2022

- Managing room scheduling, funding, and logistical pipelines for **100+ events** for 2021-2022 academic year
- Leading **team of 9** in hosting technical workshops, interview preparation, professional development, AV management, and event logistics

VICE PRESIDENT FINANCE

May 2020 - May 2021

- Managed reimbursement and financial filings with student government body and other campus entities for **100+ events**
- Oversaw and budgeted for **thousands of dollars** in sponsorship money, fundraiser proceeds, and university-allocated funding
- Streamlined reimbursement systems and sponsorship pipeline to allow for new partnerships with industry entities

Personal Projects

ACM Profiles: Social media aggregation and sharing platform

Oct. 2020 - Jan. 2021

- Product Manager: led team of 7 engineers, established deadlines, reviewed all pull requests, and conducted weekly standup meetings
- DevOps Engineer: built code quality linting and CI/CD pipeline in **Travis**, deployed **React** frontend and **Django** backend to **Netlify** and **Heroku**
- Used **Docker** and **docker-compose** alongside PostgreSQL to ease local database testing for the team's developers

SafariSideloader: Script to convert WebExtensions into Safari 14.0+ compatible format

Jun. 2020

- Used **Python** to download, extract, and convert WebExtensions from the Chrome Web Store for use in Safari 14.0+
- Built script as a wrapper around Apple's Xcode conversion tools to automate generation of template applications with Safari extensions

Skills

Languages Java (including Android), C, C++, PowerShell, Bash, Python, JavaScript

DevOps Amazon Web Services, Google Cloud, Microsoft Azure, Docker, Kubernetes, Puppet, VMware, Heroku, Netlify, Travis CI

Tools/Frameworks Git, Linux, GDB/Valgrind, Makefiles, JUnit, Ant, Maven, PostgreSQL, React, Django

Hobbies Building PCs, Gaming (Pokemon Go, Team Fortress 2, Civilization V), Reading Technology News, Eagle Scout