

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
- **Provost's Honors:** awarded to undergraduate students based on academic excellence in previous quarters
- **Coursework:** Intro to CS: Java, Advanced Data Structures: C++, Computer Architecture & Software Optimization, Software Engineering: JavaScript

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

UCSD Computer Science and Engineering Department

La Jolla, CA

COMPUTER SCIENCE TUTOR

Jan. 2021 - Mar. 2021

- Served as student tutor for CSE 12 (Basic Data Structures) and CSE 15L (Software Tools and Techniques) courses for **600+ undergraduate students**
- Taught concepts like **linked lists, stacks, binary search trees, Linux CLI, and Bash scripting** in lab hours, and graded student work
- 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

Association for Computing Machinery at UC San Diego

La Jolla, CA

VICE PRESIDENT EVENTS

May 2021 - May 2022

- Managed room scheduling, funding, and logistical pipeline for **100+ events** for 2021-2022 academic year
- Led **team of 9** individuals 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 UCSD Associated Students for **100+ events** for 2020-2021 academic year
- Oversaw and budgeted for **thousands of dollars** in sponsorship money, fundraiser proceeds, and university-allocated funding for multiple teams
- Submitted budget proposals to multiple entities on campus, bringing in thousands of dollars in funding, and streamlined reimbursement systems

CyberPatriot National Youth Cyber Defense Competition

Placentia, CA

FOUNDING PRESIDENT AND VOLUNTEER MENTOR

Sep. 2017 - Jun. 2019

- Developed curriculum for securing Windows/Linux workstations and servers, laying foundation for multi-year **national semifinalist ranking**
- Taught **70+ middle and high school students** how to secure Windows and Linux servers, workstations, and services like Apache and DNS
- Ranked in **top 20 teams** nationally and reached national semifinals competition **3 years in a row**

Personal Projects

ACM Profiles: Social media aggregation and sharing platform

Oct. 2020 - Jan. 2021

- Product Manager for a team of 7 developers: 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**
- Utilized **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 Reading news, creating and maintaining obscure virtual machines, building PCs, gaming, Eagle Scout