

Bryce Tsuyuki

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Education

University of California, San Diego

3.93 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
- **Courses:** Software Engineering, Cybersecurity, Networked Services, Data Structures, Algorithms, Computer Architecture & Software Optimization

Work Experience

Gusto

San Francisco, CA

INFRASTRUCTURE ENGINEER INTERN

Jun. 2022 - Sep. 2022

- Automated detection of end of life versions for software like **Ruby**, Rails, Redis, PostgreSQL, and Nginx, sending notifications to Slack and **Jira**
- Improved flow for testing and updating detection functionality, decreasing number of required pull requests for updates by **90%**
- Enabled automatic updates and deployment for new Rails application templates to Backstage platform
- Managed Gusto's deployments and clusters on **Amazon Web Services** with **Terraform**, **Helm**, and **Kubernetes**

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

Association for Computing Machinery at UC San Diego

San Diego, CA

VICE PRESIDENT EVENTS

May 2021 - May 2022

- Managed room scheduling, funding, and logistical pipelines for **100+ events** for 2021-2022 academic year using **Notion** for team logistics
- Led **team of 9** in hosting technical workshops, interview preparation, professional development, AV management, and event logistics
- Oversaw reorganization of ACM's events team, integrating entrepreneurship and software engineering workshops into the team's portfolio

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

Projects

ACM Profiles: Social media aggregation and sharing platform [\[GitHub link\]](#)

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 [\[GitHub link\]](#)

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), Python, Ruby, C, C++, Golang, PowerShell, Bash, JavaScript

DevOps AWS, Google Cloud, Microsoft Azure, Docker, Kubernetes, Helm, Terraform, VMware, Heroku, Travis CI, Buildkite

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

Hobbies Building PCs, Gaming (Pokemon Go, Team Fortress 2, Civilization V), reading technology news, Eagle Scout