

Bryce Tsuyuki

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Education

University of California, San Diego

3.96 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, Basic Data Structures: C/C++, Computer Organization & Systems Programming, Digital Systems & Logic Design

Work Experience

UCSD Computer Science and Engineering Department

La Jolla, CA

COMPUTER SCIENCE TUTOR

Jan. 2021 - Present

- 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.

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

California State University, Fullerton

Fullerton, CA

INTERN

Jun. 2018 - Aug. 2018

- Researched applications of cybersecurity in healthcare under Prof. Shawn Wang to provide insight into youth views on healthcare data security
- Compiled suggestions on compliance with government data security regulations and best practices into a report for Prof. Wang's research

Leadership

Association for Computing Machinery at UC San Diego

La Jolla, CA

VICE PRESIDENT FINANCE

May 2020 - Present

- 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.

Association for Computing Machinery at UC San Diego

La Jolla, CA

STAFF DIRECTOR

Nov. 2019 - May 2020

- Connected **60+ volunteer staff members** with instructional workshops and opportunities on a monthly basis
- Coordinated volunteer staff in providing logistical and instructional support to **850+ community members**

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. 2020

- 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

FlyerScanner App (SDHacks 2019): AI-powered calendar event generator for Android

Oct. 2019

- Used **AWS Comprehend ML** to analyze photos of event flyers and extract information such as event titles, descriptions, dates, and times
- Employed open source ical4j library to manage events and generate .ics files for event export, in compliance with iCalendar standard
- Built application for users to enter data into calendaring applications for increased productivity, without tedious manual entry

Skills

Languages Java (including Android), C, C++, ARMv6 Assembly, PowerShell, Bash, Python

Tools/DevOps Git, Linux, GDB/Valgrind, Makefiles, VMware, JUnit, Ant, Maven, AWS, Google Cloud, Azure, Docker, Kubernetes, Puppet, SQL

Hobbies Reading news, creating and maintaining obscure virtual machines, building PCs, gaming, Eagle Scout