

# 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, Advanced Data Structures: 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.

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. 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

### 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, 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