

# Bryce Tsuyuki

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## Education

### University of California, San Diego

3.97 GPA

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

Sep. 2019 - Jun. 2023 (expected)

- Provost's Honors and Regents Scholar - awarded to undergraduate students based on academic excellence in previous quarters

## Relevant Coursework

### Object-Oriented Programming (Java/C/C++)

Introduction to OOP, implementation of data structures and algorithms

### Computer Organization and Systems Programming

C programming language, ARM assembly, organization of computer systems

## Work Experience

### IntElect

Greater San Diego Area, CA

PRODUCT MANAGER

Apr. 2020 - Present

- Oversaw market research, gathered demographic and academic statistics on UC campuses, and distributed product viability surveys
- Spearheaded a course matching program which matched key CS skills with 260+ university and online courses for undergraduates and job seekers

### Bay Area Cyber League

San Francisco Bay Area, CA

INSTRUCTOR

May 2019 - Aug. 2019

- Taught introductory and advanced cybersecurity skills summer camps for 30 middle and high school students per week
- Developed, tested, deployed, and maintained various online competitions involving 400+ students per week, reinforcing their cybersecurity skills

### California State University, Fullerton - Computer Science Department

Fullerton, CA

INTERN

Jun. 2018 - Aug. 2018

- Researched applications of cybersecurity in healthcare under Professor 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 and Projects

### Association for Computing Machinery at UC San Diego

La Jolla, CA

VICE PRESIDENT FINANCE AND STAFF DIRECTOR

Nov. 2019 - Present

- Managed reimbursement and financial filings with Associated Students for over 100+ ACM @ UCSD events for 2020-2021
- Oversaw and budgeted for thousands of dollars in sponsorship money, fundraiser proceeds, and university-allocated funding
- 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+ members of the ACM @ UCSD community

### CyberPatriot National Youth Cyber Defense Competition

Placentia, CA

FOUNDING PRESIDENT AND VOLUNTEER MENTOR

Sep. 2017 - Jun. 2019

- Developed teaching curriculum for securing **Windows** and **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 workstations/servers, helping them achieve national semifinalist rank

### FlyerScanner App (SDHacks 2019) - AI-powered flyer scanner and calendar event generator

Android App

BACKEND DEVELOPER

<https://git.io/CATS-OSS>

- Utilized **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
- Allowed users to enter data into calendaring applications for increased productivity, without tedious manual entry

### Cyber Activity Tracking System - Google Form viewing and competition troubleshooting app

Java Desktop Application

LEAD DEVELOPER

<https://git.io/FlyerScanner>

- Utilized **Google Sheets API**, Google Forms, and **Google OAuth login** technology, with **JSON** import/export via **Google Gson** library
- Allowed cybersecurity competition administrators to triage and troubleshoot geographically disparate competition issues

## Honors & Awards

2019 **International Baccalaureate & Valencia Technology Degrees**, Valencia High School

2016 - 19 **National Semifinalist/Regional Finalist**, CyberPatriot National Youth Cyber Defense Competition

2018 **Eagle Scout with Bronze and Gold Palms**, Boy Scouts of America, Orange County Council, Troop 811

## Skills

### Frameworks

MongoDB, Java Swing, JUnit, Google Sheets API, Ant, Maven, Bulma CSS

### Languages/Scripting

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

### Tools/DevOps

Git, Unix/Linux, GitHub, GDB, Valgrind, IntelliJ IDEs, Makefiles, VMware, Amazon Web Services, Google Cloud Platform

### Personal Hobbies

Reading news and current events, virtual machines, building PCs, Pokemon Go, gaming