

# 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

- 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 modern computer systems

## Work Experience

### IntElect

Greater San Diego Area, CA

MARKET RESEARCH INTERN

Apr. 2020 - Present

- Responsible for market research for our product, including gathering demographic and academic statistics on University of California campuses
- Created and distributed surveys to UC San Diego students that would indicate the viability of our product

### Bay Area Cyber Competitions

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

## Extracurricular Activities

### Association for Computing Machinery at UC San Diego

La Jolla, CA

STAFF DIRECTOR

Nov. 2019 - Present

- 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

## Personal Projects

### FlyerScanner App (Project for SDHacks 2019)

Android App

BACKEND DEVELOPER

- 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

Java Desktop Application

LEAD DEVELOPER

- Integrated with the Google Sheets API, Google Forms, and OAuth technology stack
- Capable of functioning in online mode, with sync to Google Forms/Sheets, and offline mode, 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

React, MongoDB, Java Swing, JUnit, Google Sheets API, Ant, Maven

### Programming/Scripting

Java (including Android), C, C++, JavaScript, PowerShell, Bash

### Tools/DevOps

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