

Bryce Tsuyuki

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Education

University of California, San Diego

4.0 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 and C)

Introduction to computer science and OOP, implementation of data structures and algorithms

Software Tools and Techniques

Linux, shell scripts, automated development and testing tools, debugging, version control

Work Experience

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
- Authored a collaborative report about the findings of this research which aided Professor Wang's research
- Compiled suggestions on compliance with government data security regulations and best practices for data security

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
- Integrated with Android camera system libraries for photographic functions
- 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 export to JSON
- Utilized Google Gson library to implement JSON import and export
- Allowed cybersecurity competition administrators to triage and troubleshoot geographically disparate competition issues

Honors & Awards

2019 **International Baccalaureate Degree**, Valencia High School

2019 **Valencia Technology Degree - Computer Science Pathway**, 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

2018 **3rd Place**, Orange County Mayors' Cup Cyber Defense Competition

Skills

Frameworks React, MongoDB, Java Swing, Google Sheets API

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

Tools/DevOps Git, Unix tools, GitHub, Amazon Web Services, Google Cloud Platform