

ELIZABETH ZOU

Sport Programmer, Hackathon Fan, & Taekwondo Enthusiast

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EXPERIENCE

Software Engineer Intern

Sunnyvale, CA

Google – gRPC Security

May – Aug 2020

- Designed and implemented a Common Expression Language-based authorization engine using customizable role-based access control in the Go language implementation of gRPC, Google's remote procedure call framework
- Added example code for integration into servers using interceptors
- Wrote unit tests and integration tests, integrated into the Travis CI build

Sales & Trading Intern

New York City, NY

Bank of America – Global Rates Electronic Trading

Jan 2020

- Helped develop an investment strategy that seeks to find the optimal change in Bank of America's treasury inventories at any point in time
- Performed data processing and featurization on raw financial data
- Trained machine learning models to generate a signal that represents the optimal position, fed back into the overall optimization problem

Information Security Intern

San Diego, CA

Intuit – Security Research & Development

May – Aug 2019

- Assessed the serverless deployment of Intuit Data Protection Service's Customer Management Database on AWS for security and deployment issues, and provided remediations where applicable
- Documented runbooks and playbooks for managing the service
- Deliverables include a data flow diagram, a threat model/attack map, automated tests, and monitoring/alerting infrastructure design

Software Engineer Intern

Cambridge, MA

Microsoft – Xamarin Android

Jan 2019

- Created analyzers that screen XML layout files for poorly written code in real-time, with multiple levels of diagnostics and user warning suppression
- Created a series of quick fixes for the analyzers, activated by a simple click
- Added support for a lint.xml file where users can define warning suppression for entire files and override attributes of the analyzers

PROJECTS

Browserbug

IMMA Studio, LLC

Chrome Extension

June 2020 – Present

- Description:* A personal companion to inspire healthy habits with intelligently-sent messages from a customizable role model, whether superhero or music idol, in the form of a browser extension and an accompanying webstore to buy browserbug templates
- Role:* Co-founder and backend developer

AWARDS & ACHIEVEMENTS

- Feb 2020 Top 20 in the U.S. for Google Hash Code
- Jan 2019 Battlecode (AI competition) Finalist (Top 16 in the world)
- Apr 2017 National Winner of Lockheed Martin Code Quest
- Apr 2017 8th Place out of 8500 high school teams in picoCTF (Capture The Flag cybersecurity competition sponsored by CMU)
- Mar 2017 Winner of Hewlett-Packard CodeWars
- Feb 2017 USA Computing Olympiad Platinum (highest) Division

EDUCATION

Computer Science & Mathematics

Massachusetts Institute of Technology

Aug 2018 – May 2022

GPA: 4.9

COURSEWORK

Linear Algebra • Discrete Math • Probability & Random Variables • Machine Learning • Algorithms • Game Theory • Computation Structures • Computer & Network Security • Programming • Software Construction • Game Design • Creating Video Games

SKILLS

Algorithms	Data Structures	Docker
OOP	Frontend	Backend
pandas	sklearn	Flask
Bootstrap	Jupyter	
AWS	Git	Firebase
Android	iOS	

LANGUAGES

Proficient: Java • Python • Go • C • Bash
Familiar: JavaScript • HTML • CSS • C# • Swift • SQL • YAML • XML • MATLAB

Native or Bilingual Proficiency: Chinese

LEADERSHIP

Tech Chair

Battlecode

Feb 2019 – Present MIT

- Oversees the 5 tech teams: game design, game engine, client, infrastructure, and website
- Elected position

Vice President

Sport Taekwondo

Aug 2018 – Present MIT

- Ex-Tournament Coordinator: organized tournament sign ups and travel
- Made web app to ease tournament registration github.com/wflms20110333/EZTourney
- Organized four-day bubble tea fundraiser amassing almost \$1700 in profit
- Choreographed for, participated in, and helped lead the demonstration team
- NCTA All-American & Scholastic All-American