ELIZABETH ZOU

Sport Programmer, Hackathon Fan, & Taekwondo Enthusiast

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EXPERIENCE

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

Application Development Intern
Grand Prairie, TX
Lockheed Martin – Missiles & Fire Control
June – Aug 2017

- Used agile software engineering methods to enhance the user interface and user experience of the IETM for a logistics and sustainment application supporting the Air & Missile Defense maintenance operation
- Facilitated the daily review of software development & engineering activities

PROJECTS

Memory Eye
HackMIT 2019 (Hackathon)
iOS Application
Sept 2019

- *Description:* Uses computer vision to help users with Alzheimer's remember their prized belongings and loved ones; users write their own stories by documenting their best memories, and uses the camera as a tool to relive them
- *Role:* Worked on the computer vision backend with Azure Custom Vision

Card Game Client
PennApps XX (Hackathon)
Web Application
Sept 2019

- *Description:* Play any card game with a standard 54-card deck remotely by transmitting interactions between all participating players in real time; built-in dealing, reset game, and chat for easy interaction between users
- *Role:* Designed and programmed the UI/UX; created the landing page and chat function; hosted the backend server on GCP

AWARDS & ACHIEVEMENTS

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: 5.0

COURSEWORK

Linear Algebra ● Algorithms ● Computation Structures ● Machine Learning ● Probability & Random Variables ● Computer & Network Security ● Game Theory ● Game Design

SKILLS

Algorithms   Data Structures   Docker
Git   Front-End   Back-End   OOP
Bootstrap   Socket.IO   Android   iOS
AWS   Azure   GCP   Firebase

LANGUAGES

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

Native or Bilingual Proficiency: Chinese

ACTIVITIES

Technical Developer
Battlecode
Feb 2019 – Present   ◉ MIT

- Writes game code and creates game engine for the annual Battlecode competition and hackathon-style Battlehacks through the year

Tournament Coordinator
Sport Taekwondo
Aug 2018 – Present   ◉ MIT

- Organizes tournament sign ups and travel
- Made web app to ease tournament registration github.com/wflms20110333/EZTourney
- Organized three-day bubble tea fundraiser amassing almost $900 in profit
- Choreographed for, participated in, and helped lead the demonstration team
- NCTA National Championships Black Belt Female Team Poomsae Gold
- NCTA All-American & Scholastic All-American