Michelle Xia

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WORK EXPERIENCE

Vail Resorts   November 2023 – April 2024
Ski Instructor [Hiatus from software engineering]   Vail, CO

Amazon   August 2021 – August 2023
Software Development Engineer   Denver, CO
- Designed a new **RESTful microservice** adding cloud functionality to an existing service to enable users to update app configurations to device test groups with less than **5 ms per call** using **AWS ECS**, **Route53**, **ELB**, and **Java**
- **Implemented and deployed** a microservice connecting to an existing service with **1 million** transactions per minute without affecting existing service traffic and maintaining existing SLAs
- Designed and deployed **CI/CD pipelines** using **TypeScript** and **CloudFormation** to minimize deployment risks
- Developed **Python** script to research metric patterns, **saving ~$100k yearly** by enabling re-allocation of resources
- Architected and built website using **Angular JS**, **AWS CloudFront**, **CloudWatch**, **CSRF tokens**, **CORS**, **SSL**, and **Midway Token Auth** to migrate the existing website to new AWS infrastructure using new auth
- Designed and developed back-end logic in **Java** for processing device engagement metrics on new device launch
- Developed rigorous **unit tests** with several edge cases on new device engagement metrics to ensure code integrity

University of Texas at Austin   September 2020 – May 2021
Research Assistant   Austin, TX
- Demonstrated **image classification** recommender systems outperform state-of-the-art text recommender systems
- Recipient of the University of Texas at Austin Undergraduate Research Fellow award

Cisco Systems   May 2020– August 2020
Security Software Engineer Intern   Richardson, TX
- Harnessed **GitHub**, **Java**, and **Python** technologies within the Software Development Life Cycle process
- Developed solution automating **threat containment** within a corporate network environment to protect client assets
- Implemented an authentication scheme incorporating **machine learning** to perform authentication via facial recognition in order to ensure tight security of customers' networks
- Repaired bugs within Cisco code and developed unit tests to streamline integrity checking processes of codebases

Tyson Foods   May 2019 – August 2019
Cybersecurity Intern   Springdale, AR
- Built an app converting **CVSS risk scores** to Tyson-specific risk scores, enabling quick, informed decision making
- Scripted risk score enhancement using Twitter **scraping** and **APIs** to improve **vulnerability management** accuracy
- Created and automated reporting and dashboards while ensuring data integrity, improving security posture visibility

PROJECTS

Texas A&M Datathon (Major League Hacking Event) - *For You Page*   Fall 2020
Technologies used: nltk, spaCy, jupyter, python, numpy, matplotlib, pandas, gensim, pickle, Streamlit
- Won 1st place out of 1,300 people in the world's first and only Data Science Major League Hacking hackathon
- Built a personalized website for next year's Datathon participants with creative data gathering methods and NLP
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MIS 333K Bi-Annual Web Application Competition - *Movie Theater Website*   Fall 2020
Technologies used: C#, ASP.NET MVC, Bootstrap CSS
- Won 1st of 55 groups in ConocoPhillips competition to design and build movie theater website (Github Link)

Towards Data Science - *How College Students are Handling COVID-19*   Fall 2020
- Published article using Natural Language Processing techniques to analyze college students' response to COVID-19

EDUCATION

The University of Texas at Austin   August 2017 – May 2021
Bachelor of Business Administration, in Management Information Systems   Austin, TX
- Overall GPA: 3.73/4.00
- Certificate in Elements of Computing [6 courses in Department of Computer Science]

SKILLS & ADDITIONAL INFORMATION

Technical Skills: Python, Java, AWS, REST API, TypeScript, AngularJS, NLP, NumPy, Pandas, ASP.NET MVC, SQL
GitHub: https://github.com/michelle-xia
Work Eligibility: Eligible to work in the US with no restrictions (US Citizen)