Annie Guo

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Skills

Languages: Python, Javascript, Typescript, C#, C++, C, SQL, Bash, HTML, CSS
Database & Tools: AWS, MS Azure, MS SQL, MongoDB, Docker, Git, Postman, Figma
Libraries: OpenCV, Tensorflow, PyTorch, NumPy, Matplotlib, Pandas, Scikit, Tailwind
Frameworks: ReactJS, NextJS, ExpressJS, NodeJS, ASP.NET Core, Flask

Experience

Software Engineer Intern   Waterloo, ON
Descartes Systems Group   May 2024 - Aug. 2024

- Developed backend **geocoding services** for clients to validate and search for addresses using **MS SQL** Server and several third party data providers including OpenStreetMaps, Here and Melissa
- Supported the migration of company applications onto the **.NET Core** framework by refactoring existing codebases, implementing **MVC** architecture, and resolving **50+** bugs in **C#**
- Reduced application response times by **~700ms** through the integration of **in-memory caching** mechanisms

Software Engineer Intern   Toronto, ON
Eon Media   Sep. 2023 - Dec. 2023

- Continued development work on an AI pipeline, collaborating with a team of three engineers to implement **brand recognition** features for a large repository of archival videos and sports broadcasts
- Created API endpoints using **Nginx** and **Flask** allowing the frontend to retrieve and modify video metadata
- Led the encoding process of **7,500+** MP4 files into watermarked HLS playlists with **Python** and **AWS Lambda**
- Designed an autocompletion system out of an **Elasticsearch** database to optimize search features for brands
- Worked closely with various **AWS** services, especially EC2, S3, Lambda, IAM, and VPC, identified areas of high expense and implemented strategies to mitigate costs resulting in over **$2000** of monthly savings
- Built an automated **chatbot** application to deliver hourly updates on active pipelines to the AI team over Slack

Projects

iSpy Facial Recognition System ↗
Python, OpenCV, Numpy, Tensorflow, Google Cloud, Flask, React, Javascript, Tailwind, HTML

- Developed a full-stack face recognition app using **Tensorflow** and **OpenCV**, achieving accuracies over **90%**
- Built a **React** user interface to view and edit training data stored in **GCS** and automatically update the model
- Integrated a **Flask** server hosted on VPC to handle requests for database interactions

Personal Portfolio ↗
React, HTML, Javascript, CSS, Notion API, Spotify API, Figma

- Designed an interactive personal portfolio with **React**, **Javascript** and **CSS** that includes stylish JSX components, animations, light and dark themes as well as an email webform
- Leveraged **Notion API** to transfer content within Notion pages onto the website for increased scalability
- Integrated **Spotify API** with **OAuth 2.0** protocol, to retrieve and showcase real-time Spotify data

2048 Interactive Webgame ↗
Unity, C#, Javascript, HTML, CSS

- Programmed an object oriented implementation of the popular game 2048 using **C#** and **Unity**
- Displayed the game as a static website created with a combination of **HTML**, **CSS** and **Javascript**

Education

University of Waterloo   Waterloo, ON
Bachelor of Computer Science   Sep. 2022 - May 2027

- **Extracurriculars:** UW Data Science Club Development Team, Varsity Figure Skating
- **Coursework:** Object-Oriented Programming (C++), Data Abstraction (C), Tools and Techniques for Software Development (Bash), Data Structures and Algorithms, Linear Algebra, Operating Systems

Other

Dialects: Fluent in English and Mandarin
Certifications & Training: CS50x Introduction to Computer Science, Stanford Machine Learning Specialization