Ariel (Ying Chen) Liu

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Website • GitHub • LinkedIn • Projects

Experiences

Software Engineer   Dec 2023 - Apr 2024
Tugende   Remote
- Collaborated with former Amazon employee to establish a tech shipping startup
- Spearheaded the end-to-end development of the Tugende website, incorporating custom JavaScript and **APIs** to develop a web-based shipping cost calculator
- Developed a robust CRUD desktop survey application in **JavaFX** paired with a **React** admin reporting dashboard
  - Integrated **AWS** services, including RDS, Lambda, API Endpoint, and EC2

Data Engineering Intern   May 2023 - Aug 2023 & May 2024 – Aug 2024
BDO LLP   Toronto, ON
- Streamlined data ingestion processes by automating CSV-to-SQL transfers via **C#** scripts in Microsoft SSIS.
  - Reduced a data ingestion process runtime by over 50%
- Constructed data pipelines utilizing **Azure** Data Factory, Azure Data Lake, and Databricks
- Contributed to BDO ChatGPT web app, created and merged over 20 PRs
  - Worked with **Azure** stack (Functions, CosmosDB, Storage), **FastAPI**, and **React**

Projects

UniCalender: Dynamic Calendar for Students   Jun 2024
- CRUD web application allowing users to track assignments and tests through a clean and intuitive interface. Backend developed with Flask and frontend built with React.

CalorMe: Identifying Food Using AI   Sep 2021
- Trained an AI Computer Vision model achieving over 90% accuracy. Applied Transfer Learning with the InceptionV3 model and integrated model with a Flutter-developed app.

Extracurriculars

- Showcased expertise in Computer Vision as a featured speaker at a General Assembly **global conference** focusing on cutting-edge topics in data science, machine learning, and neural networks.

- Founded the Woodlands Hack Club and hosted a hackathon with ~**150 attendees** ranging from experienced to first-time hackers, and secured sponsorships exceeding $30,000 in value.

- Taught my cat 6 different tricks, done over 15+ years of competitive sports, and currently learning ASL

Education

University of Toronto (St. George)   Aug 2022 – May 2026
Computer Science (B.S.)   Toronto, ON
- Dean's List Scholar
- Victoria College Floor Council Member, Vic One Program Schawlow Stream

Technical Skills

Programming Languages: Python, Java, C#, C++, SQL, JavaScript/HTML/CSS, Assembly, Bash

Frameworks and Libraries: React, NodeJS, Flask, Keras, TensorFlow, JavaFX, Pandas, NumPy

Software Tools/Services: AWS, Microsoft Azure Stack, Git, RESTful APIs, MongoDB

Certifications: Responsive Web Design, Computer Vision, Intermediate Machine Learning