DAQING (TYLER) CHEN

📍 Minneapolis, MN

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EXPERIENCES

University of Minnesota GroupLens, Minneapolis, MN   May 2025 - Present
Developer

- Migrated **recommendation sytem** from Java **LensKit** to **Python Flask** for MovieLens.org, implementing similarity scoring algorithms and neighborhood-based prediction models.
- Built dynamic model training pipeline processing 1.6GB user-rating datasets, implementing data preprocessing, feature engineering, and data fetching to ensure high-quality recommendations.
- Conducted A/B testing comparing static pre-trained models vs. real-time training approaches, analyzing recommendation quality metrics to optimize system performance for production deployment.

Shenzhen Gaodeng Computer Technology Co., LTD, Guangdong, China   Jun-Aug 2024
Frontend Developer Intern

- Increased profit tracking efficacy by collaboratively **integrating third-party APIs** into the internal database using **Vue.js** interface, streamlining the tracking and accessing of toll and profit data.
- Collaborated with the backend team to adjust the logic and UI of existing sales functionality to better meet business requirements for collecting enterprise risk assessment information.
- Boosted client engagement metrics by developing a notification feature for the company's WeChat Mini Program (a widely used platform in China), enabling pricing and transaction alerts and increasing transaction tracking efforts.
- Optimized the UI and component logic for internal and external interfaces, developing and implementing a **Vue.js** interface to manage partner fuel station logos and names.
- Coordinated with product managers and key stakeholders to perform in-depth requirement analysis efforts.

University of Minnesota Networking Research Group, Minneapolis, MN   May 2023 - May 2024
Research Assistant

- Utilized **Python** to analyze 1,711 traceroute files, uncovering data roaming patterns across Germany, Italy, Spain, and France, and identified a distinct data roaming pattern for the France Orange carrier.
- Enhanced research efforts by creating in-depth, insightful graphs to visualize roaming patterns and traceroute data summaries for a published research paper.

EDUCATION

Master of Science in Computer Science (Candidate)   Sep 2024 - May 2026
University of Minnesota Twin Cities, Minneapolis, MN

Bachelor of Science in Computer Science   Jan 2022 - May 2024
University of Minnesota Twin Cities, Minneapolis, MN
2023 Fall semester Dean list

PROJECTS

Budget Tracker   May 2024

- Built a **React** and **Azure MongoDB** web app with a team of five, allowing users to manage transactions and budgets.
- Integrated **Azure AI Form Recognizer** for extracting totals from receipt photos, **streamlining user input**.
- Designed visually appealing graphs and interfaces using the **ArmChart JS** library and **Tailwind CSS**, incorporating **responsive web design** to ensure the web app is beautifully presented on devices with differnet screen size.
- Implemented login feature using **Auth0**. The web app is accessible at *here.*

Event Finder   May 2024

- Created a web app that allows event organizers to create and manage events while enabling users to browse and subscribe to events of interest, using **Flask** for frontend-backend integration and **PostgreSQL** for database management.
- Integrated **Google API** for adding events to Google Calendar and searching locations via Google Maps.

TODO list management application   Dec 2022

- Implemented the frontend using **HTML**, **CSS**, and **JavaScript** for managing and filtering to-do items.
- Built the backend with **Node.js**, **mysql Database**, and **Pug templating** for data handling and server-side logic.

SKILLS

Front-end & Database: React, Node.js, Flask, Vue.js, Webpack, Jest, GraphQL, PostgreSQL, Azure MongoDB
Programming languages: JavaScript, HTML, CSS, C, C++, Python, Java, Ocaml
Tools & Others: Cross-browser, Tailwind CSS, RESTful APIs, Git, Docker, Vscode, Google API, Linux, Agile

PUBLICATIONS

Rostand A. K. Fezeu, Claudion Fiandrino, Eman Ramadan, Jason Carpenter, ***Daqing Chen***, Yiling Tan, Joerg Widmer, Feng Qian, and Zhi-Li Zhang, "Roaming across the European Union in the 5G era: Performance, challenges and opportunities," in *Proceedings of the IEEE International Conference on Computer Communications (INFOCOM '24)*, Association for Computing Machinery