Yingan Wang

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EDUCATION

University of Illinois at Urbana-Champaign August 2018–May 2022
Bachelor of Science in Computer Science & Statistics | GPA 3.96 | Magna Cum Laude with Highest Distinction

PROFESSIONAL EXPERIENCE

Flagship (Series A, e-commerce platform, backed by Sequoia Capital) August 2024–Present
Software Engineer San Francisco, California

- Work as the 9th engineer at Flagship, an e-commerce platform to empower influencers and small creators
- Improve the existing recommendation system to use a graph-based recommendation system, and improve new brands added by creators by 15% through social proof and engagement with recommended brands by 25%
- Apply NLP concepts and algorithms (TF-IDF, n-grams), to classify brands into categories with >95% accuracy, and therefore improving user discoverability of brands
- Build a net-new media infrastructure that supports asynchronous video processing and steaming in the cloud, and secure file upload and download with presigned URL to AWS

Uplimit (Series A, AI-powered learning platform, backed by Greylock Partners) Nov 2023–July 2024
Software Engineer San Mateo, California

- Worked as a founding member and the 4th engineer at Uplimit, a Greylock Partners backed AI + Education startup, to deliver scalable, high-impact AI-powered learning experiences to Fortune 100 enterprise customers
- Integrated the product with LLMs to imitate the role of a teaching assistant, and evaluate application performances and prompt quality using LangSmith
- Enhanced on-platform collaborative editing experience by integrating with conflict-free replicated data libraries
- Led a complete overhaul of the enterprise admin dashboard to reconcile permission access control across enterprise organizations, and utilize TypeScript, React, and Next.js to deliver a robust and intuitive interface

Sisu Data (Series C, Big Data/ML startup, acquired by Snowflake in 2023) July 2022–Nov 2023
Software Engineer San Francisco, California

- Significantly improved application runtime by 40%, by programmatically simplifying SQL join relations in complex customer queries by over 70% for all customers
- Enabled versioning of metrics to capture changes in customer data warehouse, a top product priority, and therefore contributed to securing over a 90% customer retention rate
- Increased average application success rate by over 50% by launching an end-to-end product observability and reliability monitoring tool, which was used daily by engineers and cross-functional leadership teams

Inceptio Technology (Series B+, autonomous driving, backed by Sequoia Capital China) Sept–Dec 2021
Technical Program Manager Intern Fremont, California

- Collaborated with 2 engineers to identify and rectify hardware and software simulation reliability issues
- Implemented continuous testing in Gitlab CI/CD pipeline with the infra team to improve testing efficiency

RESEARCH EXPERIENCE

Cognitive & Affective Neuroscience of Psychopathology Lab Sept 2018–Dec 2019
Research Assistant Champaign, Illinois

- Work under professor Wendy Heller and PhD student Megan Finnegan to research the impact of trauma on the human brain through quantitative data and graphics visualization
- Designed an interactive 3D web application to render and visualize various parts of the human brain and its fMRI signals when recalling trauma using fMRI image data, webGL, three.js, and javascript
- Created an integrated platform in Python for neuroscience researchers to interact with human subjects during fMRI experiments, ask questions, and collect answers and fMRI data to questions in real-time

GRADUATE COURSE PROJECTS

CS 467: Social Visualization with Professor Karrie Karahalios Jan–May 2021

- Partnered with three graduate students and worked on two projects to leverage machine learning algorithms and data mining techniques to visualize social network graphs
- Designed and developed a web application to visualize and extract key information from large volumes of emails using text analysis algorithms like KMeans, DBSCAN, and multivariate Gaussian mixture model
- Built an interactive, drag-and-drop CS course planner website using CS course catalogs with topological sort

CS422: Programming Language Design with Professor Grigore Rosu Jan–May 2021
- Attended the course in a cohort of eight students as the only undergraduate student to study semantics, programming paradigms, parameter binding and evaluation strategies, concurrency mechanisms, and other programming language design principles
- Used the K framework, a rewrite-based executable semantic framework, to design imperative, object-oriented, and functional programming languages

TEACHING EXPERIENCE

Computer Science 225: Data Structures Sept 2018–Dec 2019
Course Assistant Champaign, Illinois
- Develop and revise course content to help students understand data structures more effectively.
- Hold office hours to answer questions on implementation of data structures and common algorithms.

AWARDS

University of Illinois – Tapia Scholarship 2020
- Awarded to attend the Tapia conference with full scholarship

University of Illinois – James N. Snyder Award for Scholastic Achievement – $1,000 2020
- Awarded to 2 sophomores to each class of 600 students based on academic merit

University of Illinois – JP Morgan Chase Women in Computer Science Scholarship – $2,500 2020
- Awarded to 2 female Women in Computer Science members for their active involvement and academic merit

SKILLS

- Languages: Python, SQL, Typescript, JavaScript, HTML, CSS, Rust, Java, C++
- Frameworks and tools: Git, React, Next.js, GraphQL, REST API, PostgreSQL, Prisma, SQLAlchemy, AWS, Kubernetes, Docker, Snowflake, Fivetran, dbt, gPRC, Protobuf, Figma, LangSmith, Hugging Face