

Owen Wang

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EDUCATION

University of Illinois at Urbana-Champaign

Urbana, IL

B.S. in Computer Engineering, James Scholar Honors Program, Dean's List

Expected, May 2026

- **GPA:** 3.97/4.00
- **Courses:** Distributed Systems, Database Systems, Operating Systems, Intro to Algorithms, Data Structures, Probability in Engineering, Analog Signal Processing, Linear Algebra, Differential Equations
- **Additional Courses:** TensorFlow for Deep Learning, Langchain & LLMS

TECHNICAL SKILLS

Programming Languages: C++/C, Python, JavaScript, TypeScript, Java, SQL, HTML/CSS

Frameworks: React.js, Next.js, Spring Boot, Django, Node.js, TensorFlow, LangChain

Databases/Cloud: AWS, PostgreSQL, MongoDB, Firebase, Docker

EXPERIENCE

Balyasny Asset Management

Incoming

Summer Associate Data Engineer

New York, NY

- Incoming Summer 2025.

Country Financial

Incoming

Software Developer Intern

Urbana, IL

- Incoming Spring 2025.

Disruption Lab

Sept 2024 – Present

Software Engineer

Urbana, IL

- Collaborating alongside Prof. Pieper to create a chatbot using Agentic RAG and persistent memory modules.
- Optimized response generation with K-Nearest-Neighbor search inside a FAISS vector DB, increasing model accuracy by 25% and reducing query latency by 35%.
- Developed file storage solutions on AWS S3, leveraging structured bucket organization and integrating Amazon CloudFront to enhance data retrieval efficiency and reduce access latency.

JACS Solutions

June 2024 – Aug 2024

Software Engineering Intern

Baltimore, MD

- Designed FOTA (firmware over the air) features for mobile device management system housing 10,000+ devices.
- Applied Spring Boot to create WebSocket management system with SSL communication and session management.
- Migrated frontend to React.js, enhancing client-side CRUD operations and optimizing server performance by 5%.
- Refactored backend logic into a Model-View-Controller architecture, streamlining FOTA management and saving customers 3+ hours of external manual work.
- Drafted and deployed integration tests to evaluate API and controller with the Spring Boot testing library.

PROJECTS

Skim Lit | TensorFlow, NLP

Aug 2024 – Aug 2024

- Engineered a multi-modal NLP model that uses RNNs to summarize and classify scientific paper abstracts.
- Performed experiments on 5 models, achieving a classification accuracy of 88% with BERT embeddings and feature engineered positional embeddings.

Dish Detect | TensorFlow, Streamlit

July 2024 – Aug 2024

- Utilized feature-extraction and fine-tuning to create a CNN model that classifies food present in an image.
- Achieved a model f1-score average of 85%, beating the 2016 University of Massachusetts Deep Food paper by 7% in only 2.5% of the training time.

Dish Detect | React.js, Django, PostgreSQL

May 2024 – July 2024

- Designed a web application to track, store, and display historical Spotify statistics, integrating Spotify API with a React.js frontend and Django backend connected to a PostgreSQL database
- Built RESTful API in Django with CSRF tokens to ensure secure and efficient data processing.