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 2027*

- **GPA:** 3.77/4.00
- **Courses:** Distributed Systems, Database Systems, Operating Systems, Machine Learning, Artificial Intelligence, Intro to Algorithms, Data Structures, Data Mining, Probability in Engineering

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C++, C#, Go, Java, SQL, HTML/CSS
Frameworks: React.js, Next.js, ASP.NET, Spring Boot, Node.js, Django, TensorFlow, LangChain
Databases/Cloud: AWS, MySQL, PostgreSQL, MongoDB, Docker, Kubernetes, RabbitMQ, Kafka, Jenkins

Experience

Balyasny Asset Management — June 2025 – Present

Summer Associate Data Engineer — *New York, NY*

- Engineered and deployed a message outboxing microservice using ASP.NET and Kafka, improving message reliability for real-time tracker of 1000+ broker transactions.
- Developed a broker research summarizer that auto-parses and annotates equity research documents, accelerating internal insights delivery by 3x and supporting decision-making for $500M+ in client assets.
- Built an in-process distributed cache using Paxos for consensus and optimized SQL Server queries, resulting in 2.5x improvement in dashboard load times and a smoother experience for analysts.

Country Financial — Jan 2025 – Present

Software Developer Intern — *Urbana, IL*

- Developed Python test automation framework proof of concept for Salesforce API using Selenium, BeautifulSoup, and RobotFramework, reducing manual testing time by 40%.
- Containerized test automation framework with Docker and deployed it on an Azure Container Instance to integrate with existing CI/CD pipelines.
- Wrote Python scripts to retrieve and organize Splunk API data, helping identify cost-saving opportunities that led to a 12% reduction in monthly cloud expenses.

Disruption Lab — Sept 2024 – Jan 2025

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

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.