

Benjamin Liang

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EDUCATION

University of Illinois at Urbana-Champaign – B.S. Computer Science, Minor in Business

GPA: 3.86

Dec 2025

RELEVANT COURSEWORK

Courses: Data Structures, Software Design Lab, Algorithms and Models of Computation, Database Systems, Computer Architecture, Software Engineering, System Programming, Applied Machine Learning, Data Mining, Distributed Systems, Compilers, Text Informational Systems

SKILLS

Programming: Python, Java, C++, C, SQL, C#, KQL, Bash, JavaScript, HTML/CSS, Dart, OCaml

Frameworks/Tools: Git/GitHub, NodeJS, GraphQL, Android Studio, Spring Boot, ReactJS, REST APIs, MongoDB, Flutter, PostgreSQL

DevOps/Cloud & Testing: AWS, Linux, Azure, Docker, .NET, Jira, Kubernetes, JMeter, LSF, Google Cloud Platform (GCP)

Languages: English (Native), Mandarin (Native), French (Intermediate)

EXPERIENCE

Adyen | *Software Engineering Intern*

August 2025 – December 2025

- Engineered backend systems in **Java** to support real-time payment processing for major Alternative Payment Methods (APMs) such as **PayPal**, **Affirm**, and **CashApp** (Using Java, PostgreSQL, docker, RabbitMQ)
- Contributed to high-scale, event-driven architecture to **orchestrate asynchronous callbacks**, manage **multi-step redirects**, and maintain **transactional consistency**
- Collaborated cross-functionally with product and partner API teams to adapt to evolving third-party specifications and payment flows
- Created the automatic payment token deletion and creation process for PayPal, which helped resolve on average 3% of all failed transactions for certain merchants

John Deere | *Software Engineering Intern*

Oct 2023 – August 2025

- Played a crucial role in the creation of REST APIs and web services to deliver user-friendly and efficient tools to the manufacturing team (Utilizing **Java**, **Spring boot**, **SQL**, **RabbitMQ**, **Redis**)
- Gained hands-on experience with cloud platforms such as **Microsoft Azure**, integrating cloud solutions into our products, and created dashboards using KQL to show different metrics and information
- Developed digital products critical to sustaining assembly line operations and enhancing factory logistics and operations
- Helped create a SQL database testing pipeline using spring boot and **github CI/CD pipeline** services
- Conducted **load testing with JMeter** simulating peak traffic, identifying bottlenecks and improving response time by 23%

ASUS | *Software Engineering Intern*

June 2023 – August 2023

- Developed and deployed 10 **GraphQL** APIs using **MongoDB**, **TypeScript/Node.js**, and FeathersJS, merging them into production
- Led unit testing efforts using Jest to validate the functionality and reliability of the APIs, contributing to a robust codebase and reducing post-deployment issues
- Collaborated closely with senior software engineers and product managers within the ASUS Intelligent Cloud Service (AICS) department, actively participating in design/pull request reviews and knowledge-sharing sessions (Agile methodologies, Jira, Git)
- Played a pivotal role in performance testing initiatives, leveraging **Microsoft Azure** and KQL to experiment with various in-memory and caching techniques, resulting in optimized data retrieval and improved system responsiveness

CS 124 | *Course Assistant*

January 2023 – January 2024

- Course Assistant for CS 124, the class focuses on Java and Android Development via Android Studio
- Assisted over 50 students with Java labs, providing 1:1 help on object-oriented design, UI layout, and debugging

PROJECTS

NLP Machine Learning Chrome Extension | *Project Lead*

September 2023 – December 2023

- Developed a Chrome extension leveraging Natural Language Processing (NLP) for Named Entity Recognition (NER) to identify and highlight entities (e.g., names, locations) on web pages.
- Built the backend using **Python + spaCy**, with client-side scripting in **JavaScript** and content injection APIs for real-time updates
- Implemented web scraping to extract/process content, dynamically highlighting relevant categories. **Tech Stack:** Python, JavaScript

Cloud-Based Task Automation Platform | *Project Lead*

September 2024 – January 2025

- Designed a microservices-based app for scheduling and automating recurring web tasks (e.g., scraping, email alerts, file uploads)
- Used **Node.js** and **GraphQL**, backed by **MongoDB**, deployed on **AWS Lambda**; handled 10K+ scheduled jobs with error handling
- Implemented **CI/CD pipeline via GitHub Actions**; containerized services using **Docker** and orchestrated with **Kubernetes**

EXTRACURRICULAR ACTIVITIES

IBC (Illinois Business Consulting) | *Consultant*

January 2023 – December 2025

- Advised Chief Technology Officer of a Big 4 consulting firm on the behalf of IBC on Generative AI (including utilization, application, and functionality). Applying data analytics on growth and operations, in combination with business/finance concepts.

HONORS / ADDITIONAL INFO

Awards/Additional Info: *Dean's List, James Scholar Honors, U.S. Permanent Resident, RoboCup Junior International Individual Championship (June 2021), RoboCup Junior International SuperTeam Championship (June 2019, June 2021)*

Interests: *snowboard, cooking, badminton, basketball, grilling, karaoke*