

# Minjae Kung

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## EDUCATION

### The University of North Carolina at Chapel Hill

Expected **May 2026**

#### B.S. Computer Science, B.A. Mathematics | Minor in Linguistics

3.84/4.00 GPA

3.92 CS GPA

- Dean's List – Fall 2022 to Present
- Undergraduate Linguistics Club President, UNC Academic Team Treasurer, TechX Software Development Society
- **Relevant Coursework:**  
Data Structures, Systems, Algorithms, Discrete Structures, Models of Languages & Computation, Artificial Intelligence, Foundations of Software Engineering, Linear Algebra, Real Analysis, Complex Analysis, Probability for Data Science

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## EXPERIENCE

### Intuit Credit Karma | Charlotte, NC

#### Software Engineer Intern · Credit Builder

**May 2025 – Aug 2025**

- Developed a Kubernetes CronJob to catch and retry failed payments utilizing AWS, PostgreSQL, Terraform, Redash, and payment processing APIs to improve the reliability of a financial well-being product
- Currently working on migrating an acquired startup's Iterable-based notification system to an in-house system using Apache Kafka, BigQuery pipelines, and webhooks while ensuring legal compliance, estimated to reduce costs by \$120k/yr

#### Software Engineer Intern · Credit Karma Money

**May 2024 – Aug 2024**

- Developed a TypeScript microservice that produces and publishes notification objects to Apache Kafka service bus
- Coordinated with product engineers to develop email and push notifications for checking account dispute process
- Implemented trigger mechanisms in a TypeScript service to send dispute tracking notifications to Money account holders, resulting in a decrease in call volume, improving User Experience for hundreds of thousands of members
- Fully deployed to production using Vitest, internal test environments, dev containers, A/B testing, and Splunk
- Authored a Technical Design Document to diagram architecture and summarize development and testing process

### Standard Intelligence PBC | San Francisco, CA

#### Contractor

**Aug 2024 – Sep 2024**

- Developed and maintained data processing and gathering pipelines using Python's aiohttp and asyncio
- Optimized API calls and parallelized tasks to improve pipeline efficiency and reduce latency
- Wrote unit and integration tests in Pytest to maintain code quality and ensure system stability

### UNC School of Medicine | Chapel Hill, NC

#### IT Security Assistant

**Aug 2022 – Present**

- Analyzed phishing testing and security data for over 7,000 users within the School of Medicine
- Generated and presented TeamDynamix reports of departmental business analytics and Splunk data
- Performed forensics, archival of over 50 terabytes of hard drives and digitized 20 years of business associate agreements

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## PROJECTS

### "LectureMate": Artificial Intelligence Research

- Conducted exploratory research into LLM pipeline interactions by developing software that automatically generates supplemental study material from audio recordings and slide decks by integrating **Whisper** and **Llama** APIs
- Authored a research paper and presented findings for UNC's COMP 560: Artificial Intelligence course

### Mental Health Diary: HackNC Project

- Collaborated with a team of 4 to create a journaling web-application with **Sentiment Analysis**
- Utilized Natural Language Processing with **Python's NLTK** and vaderSentiment to detect variation in polarity of entries
- Webapp structured with **Flask** and Jinja2 templating, data visualization using **Matplotlib** and **Pandas**

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## SKILLS & INTERESTS

### Languages, Technologies, Methodologies:

- Python, Java, Scala, C, HTML, CSS, JavaScript, TypeScript, Go, C++, SQL, R, Elixir; OOP & Functional Programming
- Docker, Kubernetes, AWS, GCP, Figma, REST API, GraphQL, Node.js, React, Vue.js, Angular, Flask, Circle CI, Agile, Scrum, Kanban

**Human Languages:** Korean (native), English (native), French (B1), Russian (A2)

**Interests and Passions:** Architecture, Urban Planning and Transit, Trivia, Geography, Cycling, Language Learning, Photography