

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

3.82/4.00 GPA

4.00 CS GPA

- Dean's List – Fall 2022 to Present

- UNC Academic Team Treasurer, Undergraduate Linguistics Club Executive, TechX Software Development Society

- **Relevant Coursework:**

Data Structures and Algorithms, Systems Fundamentals, Models of Languages and Computation, Discrete Structures, Foundations of Software Engineering, Linear Algebra, Complex Analysis, Probability for Data Science

EXPERIENCE

Software Engineer Intern – Product

May 2024 – Aug 2024

Credit Karma

Charlotte, NC

- 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 bank account holders, resulting in a decrease in call volume, affecting the User Experience for over 600,000 customers
- Utilized Apache Thrift IDL to ensure unified data exchange across services
- Fully deployed services to production using Vitest, internal test environments, dev containers, and A/B testing
- Authored a Technical Design Document to diagram the architecture and summarize the development and testing process

IT Security Assistant

Aug 2022 – Present

UNC School of Medicine · Information Security Office

Chapel Hill, NC

- Analyzed phishing testing and security data for over 7,000 users within the School of Medicine
 - Performed forensics and archival of over 50 terabytes of hard drives
 - Digitized and archived 20 years of business associate agreements and chain of custody records
 - Created Confluence documentation for Qualys, risk assessments, ServiceNow requests, and onboarding
 - Decommissioned and ensured proper documentation of deprecated disk drives and information systems
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PROJECTS

Cogniscribe: HackNC 2023 Project

- Collaborated with a team of 4 to develop a meeting recorder that automatically transcribes speech and takes notes
- Frontend built with **Node.js**, **React**, and Chakra UI
- Backend built in **Python** with **Flask** to integrate OpenAI's **Whisper** and **GPT** API

Korean Language Transliterator

- Currently developing software that parses and transliterates Korean words and phrases utilizing OpenAI APIs

Mental Health Diary: HackNC 2022 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**

Kinematica: Physics Kinematics Calculator

- Physics calculator for projectile motion and elastic and inelastic collision with live graphing capabilities
 - Written using **JavaScript**, **LaTeX**, **KaTeX**, and **HTML/CSS**; visualization implemented through Function-Plot library
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SKILLS & INTERESTS

Languages and Technologies:

- Python, Java, Scala, C, HTML, CSS, JavaScript, TypeScript, React, Flask, CircleCI, Docker · Familiar with C++, SQL, R

Human Languages:

- Korean (native), English (native), French (B1), Russian (A2)

Interests and Passions:

- Architecture, Urban Planning and Transit, Trivia, Geography, Cycling, Language Learning