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
- Dean's List – Fall 2022 to Present   4.00 CS GPA
- UNC Academic Team Treasurer, Undergraduate Linguistics Club Executive, TechX Software Development Society
- **Relevant Coursework**:
  Data Structures and Algorithms, Foundations of Programming, Systems Fundamentals, Discrete Structures,
  Linear Algebra, Complex Analysis, Probability for Data Science

EXPERIENCE

Software Engineer Intern - Backend   **May 2024 – Aug 2024**
Credit Karma, LLC   Charlotte, NC
- Developed a TypeScript microservice that produces and publishes notification objects to the 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 to ensure unified data exchange across services
- Fully deployed services to production using Vitest, internal test environments, and A/B testing experiments

IT Security Assistant   **Aug 2022 – Present**
UNC School of Medicine · Information Security Office   Chapel Hill, NC
- Analyzed phish 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

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

SKILLS & INTERESTS

Languages and Technologies:
- Python, Java, Scala, HTML, CSS, JavaScript, TypeScript, React, Node.js, Flask, CircleCI · Familiar with C, 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