

Minjun Kwak

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EDUCATION

Duke University

Electrical & Computer Engineering + Computer Science

Durham, NC

August 2020 - Present

- **Cumulative GPA:** 4.0 / 4.0
- **Relevant Coursework:** Software Design & Implementation, Data Structures & Algorithms, Operating Systems, Computer Architecture, Multivariable Calculus, Linear Algebra, Differential Equations
- **Organizations:** Duke Applied Machine Learning Club – Software Engineer

WORK EXPERIENCE

Sparrow Lending

Software Engineering Intern

Remote Internship

May 2021 – August 2021

- Implemented frontend design of lender-side webpages using ReactJS.
- Wrote logic for saving user loan applications in AWS lambda using Node.js.
- Refactored and organized AWS lambda functions to follow company conventions.

Duke Academic Resource Center

Paid Peer Tutor

Student Employee

January 2022 – Present

- Improved other students' understanding of computer architecture concepts through weekly tutoring sessions.
- Participated in two professional development sessions to improve tutoring skills.
- Studied tutoring material for 2hrs/week to prepare for tutee questions.

PROJECTS

Information Encoding

Software Developer

Research Project

May 2021 – September 2021

- Developed an interactive website to present the efficacy of information encoding and decoding using bacterial colonies and trained CNNs with a team of software developers led by the Lingchong You Lab of the Duke Biomedical Engineering Department. The website is found at www.patternencoder.com
- Led the backend team in developing Flask application for retrieving images from AWS, using OpenCV to create a video with the images, and running a trained CNN model to allow decoding of the images.

HackDuke 2021

Student Software Developer

MLH Hackathon

October 2021

- Worked with peers to create a mobile iOS app that allows for better communication between older people and generation Z by allowing users to submit an image/text and displaying a translation for all slang words found.
- Winning team of Best Use of Google Cloud prize.
- Used NodeJS for backend API and Swift for frontend, Google Cloud's App Engine for server hosting, and Google Cloud's Optical Character Recognition program to determine text from images.
- Link to the hackathon submission: <https://devpost.com/software/pog-parents-on-groupchats>

Thread Library

School Project

November 2021

- Created a user-level thread library in C that implements the following functions: libinit(), create(), yield(), lock(), unlock(), wait(), signal(), and broadcast().
- Used Linux-provided getcontext(), makecontext(), and swapcontext() along with an interrupt library to simulate disabling and enabling interrupts to ensure atomicity.

SKILLS & ACHIEVEMENTS

Skills: Object-Oriented Programming, Java, Javascript, Python, C/C++, Flask, Node.js, React.js, HTML, CSS

Achievements: Fall 2021 Duke University Dean's List with Distinction