# Derrick Kim

Available: June 2024

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## EDUCATION

**Northeastern University**, Boston MA                                                              2020 – 2024(exp.)
**Khoury College of Computer Science**
Candidate for Bachelor of Science in Computer Science, 2024

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|---|---|
| Relevant Courses: | Algorithms | Object-Oriented Design | Linear Algebra | Artificial Intelligence Database Design | Machine Learning and Data Mining | NLP |
| Honors: | **GPA: 3.89/4.0** Dean's List |

## TECHNICAL KNOWLEDGE

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|---|---|
| Frontend: | TypeScript | JavaScript | React | React Native | Vue | Tailwind | HTML/CSS |
| Backend: | Java | Spring | Node | Express | Python | Flask | MongoDB | SQL | PostgreSQL |
| Tools: | Git | Jira | AWS | Terraform | OpenAPI | Appium |

## WORK & VOLUNTEER EXPERIENCE

**Software Engineering Co-op, Mobile App**                                              July 2023 - December 2023
*CarGurus, Boston MA*
- Spearheaded the implementation of new features and native screens, elevating user experience using Typescript/React Native.
- Played a pivotal role in optimizing data flow within the application's API Gateway by contributing to backend development using Java/Spring and Open API Spec
- Improved system reliability and performance by enhancing an internal microservice to efficiently store user feedback in a SQL database, resulting in a notable decrease in failure rates
- Conducted A/B tests for new features to improve personalization, user experience, and conversion metrics

**Software Engineer (Volunteer)**
*Generate NU, Boston MA*                                                              September 2023 - December 2023
- Developed a gifting service web application using React/Typescript and Go/Postgres
- Revamped Generate's website by refactoring codebase and implementing responsive layouts in React/JS

**SDK Developer Co-op**                                                              Jan 2022 – Aug 2022
*Skillz Inc, Portland, OR*
- Collaborated on the development of UI features and components using React Native and JavaScript/TypeScript, ensuring code integrity through comprehensive automated testing
- Contributed to maintaining code quality using Jest and Appium

**Teaching Assistant for Discrete Structures**                                        Sept 2021 – Dec 2021
*Northeastern University, Boston MA*
- Work with a team of TAs to provide academic support to around 900 students
- Hold 4+ office hours per week to help individual students
- Assist faculty in grading, reviewing course material, and providing feedback on the course

## PROJECT EXPERIENCE

**Recipy**
- A cooking recipe blog web application developed using React/Typescript, Node.js/Express, and MongoDB

**Serverless Image Processor**
- Image processing pipeline developed using Terraform and AWS S3 and Lambda
- Supports processing, uploading, and retrieving images through one endpoint

**Newsletter Application**
- A news aggregator web application developed using Vue/Typescript, Flask/Python, and PostgreSQL
- Crawl article data from Google News and NYT using Scrapy/Python

**Image Caption Generation Application**
- Implemented an Image Captioning model in PyTorch using a CNN-LSTM Neural Network with Attention
- Supplemented the model with a backend API using Flask/Python
- Built a web application using React/Typescript that uses the API for making predictions