

Keaton Martin

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EDUCATION

University of Kentucky

B.S. in Computer Science; Cumulative GPA: 4.0

Lexington, KY

August 2021 – May 2025

EXPERIENCE

Software Engineering Intern

84.51°

May 2023 - Present

Cincinnati, OH

- Learned Go in order to refactor an existing Java microservice by rewriting it from scratch.
- Parallelized uploads to a content management system, increasing the throughput of a service by more than a factor of 2.
- Gained experience working with both REST and event-driven messaging-based architectures in order to implement communication between microservices.
- Sped up development speed by writing a GitHub Workflow to automatically fetch the latest build tag to deploy to a K8s cluster.
- Learned how to write unit and integration tests for microservices by mocking dependencies with Mockito and JUnit.

MLH Prep Fellow

Major League Hacking

July 2022 - August 2022

Remote

- Participated in a month-long program during which students collaborated in short hackathon sprints to develop an interactive weather map using React.
- Gained experience communicating with other students in a team setting; daily Agile-like stand-up meetings, feature presentations, etc.

PROJECTS

UKY Dining Hall App | Python, React Native, AWS Lambda

August 2022 – December 2022

- Developed an Android application used by students at the University of Kentucky to view dining hall menus.
- Wrote and deployed a RESTful API on a serverless architecture using AWS Lambda and API Gateway.
- Added a caching layer in front of the backend using AWS CloudFront to reduce cost.

Cross-stitch Pattern Generator | React Native, Python, Machine Learning, Git

April 2023

- Built a full-stack mobile app that uses machine learning to generate cross-stitch patterns.
- Deployed an endpoint on Google Cloud Functions that trains a k-means clustering model on an image in the request payload.
- Received first place at CatHacks, an annual hackathon at the University of Kentucky.
- Collaborated with a teammate using version control with Git.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Go, JavaScript, HTML/CSS

Frameworks: Spring/Spring Boot, FastAPI, React/React Native, Node.js, Flask, Angular

Developer Tools: Git, Unix, Kubernetes, Docker, MongoDB, LaTeX, GitHub Actions, Azure

Libraries: pandas, NumPy, Matplotlib, scikit-learn, Mockito, JUnit

RELEVANT COURSEWORK

- Completed coursework: Undergraduate Data Structures and Algorithms, Linear Algebra, Data Science, Automata Theory, Computer Graphics, Discrete Math, Differential Equations, Systems Programming
- Fall 2023 coursework: Graduate Data Structures and Algorithms, Graph Theory and Combinatorics, Artificial Intelligence, Databases, Networking