Patrick McCarty

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Experience

Backend Software Engineer, Fetch – Madison, WI   Jan 2024 - Current

- Reduced processing times for the app's email feature by 75%. Improving user experience and saving the company hundreds of dollars a day in reduced AWS infrastructure costs.
- Created a feature for A/B testing in app offers. Allows product owners to slowly rollout offers and evaluate performance before enabling them for all users.
- Improved a critical services availability from 98% uptime to 99.9% by identifying and resolving issues with the usage of third party APIs.

Backend Software Engineering Intern, Fetch – Madison, WI   May 2023 - Aug 2023

- Implemented a feature using the **AWS SDK**, enabling users to receive one-time security codes through phone calls in addition to the existing SMS. This new feature allows users with phones that cannot receive SMS messages to also sign up for the app.
- Enhanced the customer support dashboard by integrating informative icons into the UI and replacing the use of deprecated backend routes with modern ones.
- Identified and fixed a potential security concern stemming from how emails where being stored across multiple databases.

Education

University of Wisconsin-Madison, BS in Computer Science   Sept 2021 - Dec 2023

- **GPA:** 4.0
- **Related Coursework:** Operating Systems, Computer Networks, Algorithms and Data Structures, Database Management Systems

Madison Area Technical College, AA in Economics and Pre-Business   Sept 2019 - May 2021

- **GPA:** 3.8

Certifications

- AWS Certified Cloud Developer

Projects

Multi-User Drawing Tool   github.com/name/repo

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar   github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System   2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Skills

Programming Languages: Go, Python, Java, C, SQL

Technologies: Git, Bash, AWS, Docker, RESTful APIs, DynamoDB, SQLite3