

Patrick McCullough II

Software Engineer

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Professional Experience

MultiEmployer

Jun 2019 - Jan 2023

Backend Engineer

Berkeley, CA

- Collaborated with clients to understand requirements, design, develop, and maintain custom web applications, utilizing React, MySQL, PostgreSQL, PHP, and Python.
- Led the migration effort, converting the entire system from PHP to Symfony's MVC architecture, resulting in a 40% reduction in code complexity.
- Drove redevelopment of internal tracking system in use by over 1000 employees, resulting in more than 40 new features, 25% reduction in load/save time, and 15% in operation time.
- Analyzed and identified inefficient queries, implemented indexing, caching, and query tuning, achieving a 40% reduction in query response times, leading to a significant improvement in application speed and reliability.

YourChain

Sep 2017 - May 2019

Full Stack Engineer

Berkeley, CA

- Spearheaded a cross-functional team (Technology, Business Development, Management) to develop and implement a new CRM system; successful adoption accelerated revenue growth by 25% within 1 year.
- Developed an event-driven serverless integration framework using AWS Lambda and EventBridge, facilitating seamless synchronization of customer data, achieving a 25% increase in user engagement and a 30% reduction in server costs.
- Implemented automated unit and integration tests through frameworks like Pytest, reducing the number of critical software crashes by 60%.
- Utilized Kubernetes containerization implementation to eliminate the "it works on my machine" problem, reducing post-deployment errors by almost 50%.

Education

New York University

Bachelor of Science, Major in Computer Science

New York, NY

May 2018

Technical Skills

Programming Languages: Java, Python, PHP, Javascript

Backend: Spring, Django, Symfony, JDBC, Kubernetes, Docker, MySQL, AWS, Maven

Frontend: React, HTML, CSS, Node.js