Charles Mcturland

Software Engineer

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Live : Bay Area, California
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Profile

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Education

B.S. Computer Science

University of Pittsburgh, Pittsburgh, PA   09/2010 - 06/2014

Skills

Programming Languages
Java • Python • JavaScript • Go • C\C++ • SQL

Databases
MySQL • Postgres • MongoDB • Cassandra

Web Frameworks
Spring Boot • Flask, Django • Ruby on Rails • React, Vuejs

Misc.
Git/Github • Linux • Shell scripts

Work experiences

Software Engineer   Full-time   01/2021 – Current

@ Google

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Highlights:
• Worked with product managers to re-architect a multi-page web app into a single page web-app, boosting yearly revenue by $1.4M
• Constructed the logic for a streamlined ad-serving platform that scaled to our 35M users, which improved the page speed by 15% after implementation
• Tested software for bugs and operating speed, fixing bugs and documenting processes to increase efficiency by 18%
• Iterated platform for college admissions, collaborating with a group of 4 engineers to create features across the software

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Highlights:
• Worked on the payments team to save time and improve cash flow for over 50,000 through the development of modern, responsive customer experiences
• Led the migration from AWS to GCP for the team to reduce cloud costs by $260,000 per year
• Worked closely with the product team to re-configure the processing of invoices, saving customers over 125,000 manual hours of work per month
• Mentored 3 junior front-end developers on the team on React, and documented best practices within the organization

Sr. Software Engineer   Contractor   10/2017 – 12/2020
@ MarketSmart

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Highlights:
• Built RESTful APIs that served data to the JavaScript front-end
• based on dynamically chosen user inputs that handled over 500,000
• concurrent users
• Built internal tool using NodeJS and Pupeteer.js to automate QA and
• monitoring of donor-facing web app, which improved CTR by 3%
• Reviewed code and conducted testing for 3 additional features on
• donor-facing web app that increased contributions by 12%

Front-End Developer   Full-time   02/2014 – 09/2017
@ ARM

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Highlights:
• Contributed to the in-house UI library to create reusable components that saved 125+ hours of development per month
• Created a web app MVP for a store delivery management platform with 200+ business customers to create, manage, and monitor deliveries using React and Redux
• Added features to meditation app with 5,000+ monthly users, enabling audio and video uploads using React and Redux
• Improved customer conversion rate by 17% through A/B testing of different components and combinations, representing $500,000+ in incremental annual revenue

Software Engineer   Intern   11/2013 – 01/2014
@ Marketing Science Company

Highlights:
• Partnered with a developer to implement RESTful APIs in Django,
• enabling analytics team to increase reporting speed by 24%
• Using Selenium I built out a unit testing infrastructure for a client
• application that reduced the number of bugs reported by the client
• by 11% month over month