Kaleb McKone

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⌗ krmckone

Education

BA, BS **University of Iowa**, Computer Science, Mathematics   2016 – 2019

- GPA: 3.73/4.0
- **Noteable Coursework:** Computer Organization, Discrete Mathematics, Data Structures, Algorithms, OOP Software, Abstract Algebra, Numerical Analysis, Programing Language Concepts, Operating Systems, Graph Theory, Linear Algebra

Experience

Transfix, Senior Software Engineer I

- Senior member of Transfix's engineering organization, leading migration for 50+ customers to the Orderful platform from inhouse integrations. Regular member of on-call rotation, helping maintain entire brokerage SaaS for users
- Implemented more than 20 backend API/EDI integrations, eliminating time spent on data entry tasks by 6-12 hours/shipment
- Engineered novel system for parsing, building, and validating X12 transmissions in Ruby, reducing time to deliver new integrations from six weeks to one while removing engineers from the process
- Introduced automation for AR/AP workflows around invoicing and document uploads to external systems, decreasing cost per load by 15%

Remote
Aug 2021 – present
2 years 12 months

MZD/Pearson Education, Full Stack Software Engineer

- Lead full stack engineer on ADAM (Assessment Delivery and Management) platform.
- Completed database transition from MongoDB to PostgreSQL on ADAM (assessment delivery and management)
- Orchestrated project to automate assessment generation dynamically based on class enrollment, utilizing Merkle tree developed in Postgres, completely removing inefficient manual steps for teachers
- Contributed regularly to platform feature set, reliability and ease of use, direct impact to company acquisition by Pearson Education

Iowa City, IA, Hybrid
May 2020 – Aug 2021
1 year 3 months

Target, Software Engineer

- Gained valuable experience in maintaining infrastructure and software platforms for bare metal systems that other developers relied on
- Responsible for automated Linux configuration of critical systems for the in-store Target enterprise of 6,000 servers
- Subject matter expert on project to update all in-store Target servers to Centos 7.6 from various previous versions

Minneapolis, MN
Sept 2019 – May 2020
8 months

University of Iowa, Full Stack Software Engineer

- Lead full stack developer on web application and implemented brand new infrastructure/deployment process in University's AWS account
- Migrated existing production research survey app to Angular 2 from Angular 1
- Implemented new features based on requests to enhance the survey tool's ability

Iowa City, Iowa
Aug 2018 – Aug 2019
1 year 1 month

to collect research data including enabling Mechanical Turk
- Architected CI/CD workflows and infrastructure as code to automate app deployment to AWS, usable by non-experts

Thomson Reuters, Cloud Engineer Intern

Minneapolis, MN
Jan 2018 – Aug 2018
7 months

- 8 Month internship working with Thomson Reuter's Cloud Center of Excellence group
- Demonstrated cloud SaaS deployment using Java spring boot micro services deployed to AWS using best practices
- Leveraged AWS Lambda in deploying serverless python scripts, used to provide automation of API usage in our aggregation of metrics and logs in our usage of DataDog and Sumo Logic

Projects

lk-site ↗

- Custom static site generator built in Go. Converts markdown assets and other raw data into HTML pages.
- Builds using Github Actions, automatically deploys twice daily
- Available at krmckone.com ↗

rayTracingOneWeekendRust ↗

- Implemented the ray tracing in one weekend project in Rust rather than C++

Technologies

Languages: Ruby, Typescript, JavaScript, NodeJS, Go, Rust, Python, SQL, Bash, C/C++, HTML/CSS

Libraries/Frameworks: Ruby on Rails, VueJS, React, Angular, Chef, Ansible, GraphQL, Express, Spring Boot

Platforms: PostgreSQL, AWS, Linux, Github Actions, Docker, DataDog

Soft: CI/CD, Unit Testing, infrastructure as Code, On-Call, Communication, Technical Writing, Callaborating, Troubleshooting, Project Management, Bug Fixing