

Brock McElroy

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EXPERIENCE

Equips

Full Stack Software Engineer

Remote

Jul. 2021 — Present

- Design and implement new features using TypeScript, React, GraphQL, and AWS Lambda
- Created homepage dashboard to improve marketability and present quick access to important actions and information
- Architected the replatform of the Equips GraphQL API using PostgreSQL, Prisma, and GraphQL Nexus
- Automated compilation, packaging, and deployment of TypeScript projects to an internal package repository

University of Arizona — Financial Services

Applications Systems Analyst/Developer

Tucson, AZ

Jul. 2019 — Jul. 2021

- Lead development team in the design, development, and deployment of Python and JavaScript web applications
- Reimplemented the university's Tuition Calculator to better accommodate an increasingly complex tuition structure
- Led design and development of a new application to manage and automate the creation of tuition rates (up to 15,000 per year), resulting in the fastest ever turnaround of a semester's tuition
- Rewrote Django applications using AWS Lambda serverless functions, reducing hosting costs by over 95%
- Developed a drop-in replacement for the legacy purchasing-card audit platform, reducing application response times by 80% on average

2U

Teaching Assistant — University of Arizona

Tucson, AZ

May 2019 — Jul. 2020

- Assisted instruction of full-stack web technologies (e.g. React, Express, Node.js, SQL, MongoDB) in a fast-paced, in-person coding bootcamp
- Prepared and presented lectures on fundamental version control concepts and Git usage
- Guided students through mock interview code challenges and the approaches to solving them
- Authored supplemental resource list to guide students toward continued learning after their graduation
- Provided constructive, motivating feedback on homework to improve student understanding and the resulting code

PROJECTS

- **Digital Ghost Export — Contract:** A Kibana extension, implemented with TypeScript and React, which allows data analysts to export and tag many Elasticsearch indices using a no-code, query-by-example user interface.
- **Cursorless Test Recorder — Open Source:** Contribution to the Cursorless project, a Visual Studio Code extension which enables complex code editing by voice. Allows developers to generate test cases by recording their actions and editor state to YAML test cases. The recorder plays back and asserts test cases with Jest.
- **gatsby-starter-stripe — Open Source:** An open source starter for a statically-generated, live-updated, serverless storefront and admin dashboard. Built-in inventory, cart, and checkout is integrated with Stripe for payment processing. Built with Gatsby, React, GraphQL, and AWS Lambda.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, Ruby, SQL, GraphQL
- **Technologies:** React, Vue, Django, Rails, Express, AWS, DynamoDB, Docker, Serverless, Git, GitLab CI

EDUCATION

University of Arizona

Bachelor of Science in Environmental Science

Tucson, AZ

Aug. 2012 — May 2017