

MICHAEL ROY

Software Engineer | Veteran | Technical Team Lead

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Languages: JavaScript ES6, Typescript, C#, React 17, PostgreSQL, Firebase, HTML, CSS

Tools: Git, Github Actions, Terraform, Ansible, Docker

Certs: CompTIA Security+, AWS Cloud Practitioner, SAFe Agile (SP), AWS Solutions Architect Associate (Pending)

PROJECTS

FlashAce AI Study Tool – github.com/Headstarters/Flash-card-app **Aug 2024**

- Dynamic AI flashcard application with study mode, allowing users to generate custom decks for efficient learning
- Built using Next, React, JavaScript ES6, MUI, Firebase, Clerk, OpenAI, and Stripe API

Deep Impact - deep-impact.onrender.com - 1st Place Hackathon Winner **May 2024**

- Web application designed to provide users with educational insights into the potential dangers of asteroid impacts
- Built using Python, JavaScript ES6, Django, React and hosted on Render with NASA's Sentry API

Platoon Console – github.com/L-Carr/Platoon-Console **Apr 2024**

- Web application dashboard for managing Code Platoon cohorts, offering centralized access to course materials
- Built using Python, JavaScript ES6, Django, React, and a PostgreSQL database with Google API

Validation Station – github.com/its-michaelroy/ValidationStation **Mar 2024**

- App for validating emails and phone numbers, with results and details displayed via a user-friendly interface
- Built using Python, JavaScript ES6, Django, React, and a PostgreSQL database with BigDataCloud API

EDUCATION

DevOps & Cloud Engineer | Code Platoon **May 2024-Oct 2024**

- Created AWS environments, deployed apps using Terraform, Ansible, and Github Actions

Software Engineer | Code Platoon **Feb 2024-May 2024**

- 700+ hour software engineer curriculum using React, JavaScript, SQL, Git, TDD, and Agile

Bachelor of Science Information Technology | Slippery Rock University **Aug 2013-May 2017**

- Coursework in JavaScript, Scripting languages, Data Structures and Algorithms, and C++ programming

PROFESSIONAL EXPERIENCE

Software Engineering Fellow | Headstarter AI **July 2024-Present**

- Developed 5+ AI-powered apps including an Inventory system, using Next.js, JavaScript, OpenAI, and Stripe API
- Enhancing a green contractor startup's app through data analysis, AI optimization, and code refactoring

Data Center Technician | Oracle **June 2022-Feb 2024**

- Collaborated with team using JIRA in testing initiatives, resolving over 90 hardware and software issues, achieving 99.99% uptime, improving stability, and saving the company over \$65K
- Performed database tuning and indexing to enhance query performance across data center infrastructure
- Configured Exadata X7-2L servers with the development team utilizing scripts to optimize rack environments

Information Technology Specialist – Tier 3 | TEKSystems **Feb 2021-June 2022**

- Created automated scripts for Office 365 and Outlook for user account setup, troubleshooting software, network, and vpn applications, resulting in 35% faster resolution and improved employee satisfaction
- Deployed and configured 300+ thin clients, assisted network team with Cisco access points, and provided on-site support for critical data center projects as needed, ensuring seamless operations for federal employees

Systems Analyst – Tier 3 | Arnett Carbis Toothman **Apr 2017-Feb 2021**

- Developed automated scripts to streamline IT operations, including user login audits, and server maintenance, resulting in a 20% average reduction in downtime for 900+ computers, and 90 servers across 30+ clients
- Advised on IT and security solutions, cutting incidents by 25% and boosting network efficiency by 30%