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%