1201 Stone View Crossing, Apt 205
Morrisville NC, 27560

# BRETT M. HOWELL

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## RELEVANT EMPLOYMENT

**Junior DevOps Engineer**               **Menrva Technologies**               **September 2023 - Present**

- Maintained AWS cloud architecture with VPC, ECS, RDS, Application Load Balancer and Auto-Scaling groups to ensure 100% uptime.
- Implemented Terraform scripts and modules for IaC, reducing architecture deployment time by 90%.
- Developed CI/CD pipelines via GitHub Actions for automating testing, containerization and deployment of MERN stack applications, reducing development and deployment time by 40%.
- Managed AWS costs and over time reduced cloud costs by 35%.
- Developed monitoring solutions using Cloudwatch logs eventually resulting in 20% increased efficiency of Auto-Scaling groups.

**Full Stack Engineer Intern**               **Menrva Technologies**               **June 2023 - September 2023**

- Engineered and launched a full-stack MERN application by designing RESTful APIs with Node.js, building dynamic UI components in React, and orchestrating state management with Redux.
- Orchestrated the deployment of scalable microservices using Docker, enhancing system architecture and streamlining the CI/CD process to boost deployment efficiency and system reliability.
- Implemented robust user authentication mechanisms using JWT and OAuth, and rigorously tested backend and frontend components with Jest to ensure top-notch security and reliability.

**Technical Support II**               **Center Information Services**               **August 2022 – September 2023**

- Provided comprehensive technical support to non-profit agencies in the Greater Rochester area, ensuring efficient resolution of technology-related inquiries.
- Managed and resolved technical issues promptly using a sophisticated ticketing system, enhancing service quality and client satisfaction.
- Contributed to cybersecurity initiatives, implementing measures to protect against vulnerabilities and secure client data integrity.
- Supported the streamlined delivery of technology services, facilitating improved operational efficiency for CIS's non-profit partners.
- Fostered a collaborative work environment, partnering with colleagues to ensure timely and effective issue resolution for a seamless client experience.

## CERTIFICATIONS

**Solutions Architect Associate - C03**               **Amazon Web Services**               **January 2023**

- Gained expertise in designing and deploying scalable, secure, and efficient solutions on AWS, including hands-on experience with EC2, S3, VPC, and IAM.
- Mastered AWS architectural principles and services, focusing on building reliable applications and optimizing costs in a cloud environment.

## EDUCATION

**Associates in Biology**               **Monroe Community College**               **June 2015**

## TECHNICAL EXPERIENCE

**Projects**

- **Blog:** Wordpress website to host my personal blog. Built on an Amazon Linux VM with IaC and CI/CD methods. AWS, Bash, Linux, Terraform, Ansible, GitHub Actions.
- **Hangman:** Containerized game application hosted on the cloud with Load Balancing and Auto Scaling with IaC and CI/CD. AWS, Docker, Python, Flask, MySQL, Terraform, GitHub Actions.
- **Cloud Resume Challenge:** HTML/CSS/JS website to host my resume. Developed using serverless computing on the cloud with IaC and CI/CD. Frontend, AWS, Terraform, GitHub Actions.

## SKILLS

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|---|---|---|---|---|---|
| AWS | Azure | Terraform | Linux | Docker | SQL/NoSQL |
| Python | React | Node.js | CI/CD | Ansible | HTML/CSS/JavaScript |