

SHIVAKUMAR BOBBALI

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OBJECTIVE

Aspiring **DevOps Engineer** with a Master's in Computer Science and hands-on experience in **automating deployments, managing infrastructure-as-code**, and building **CI/CD pipelines** in cloud environments. Eager to contribute to high-impact teams through **automation, observability, and performance-driven practices**.

EDUCATION

Master of Computer Science, University of Dayton

May 2025

Relevant Coursework: Advanced Programming, Deep Learning, Operating Systems

EXPERIENCE

Python Developer Intern

Jan 2023 – Jun 2023

Path Creators

Hyderabad, India

- Developed automated scripts for data analysis and reporting, reducing manual processing time by **50%** and saving **3+ hours/week**.
- Visualized large datasets with Matplotlib, enabling **2x faster** decision-making on product metrics.
- Resolved **12+ backend issues** with QA and DevOps collaboration, improving sprint throughput by **30%**.
- Reduced tool response time from **2.5s to 0.9s** via code modularization and performance tuning.

Robotics Technician Intern

Jun 2019 – Jul 2019

Path Creators

Hyderabad, India

- Engineered an obstacle-avoiding robot with **95% path accuracy** using ultrasonic sensors.
- Integrated real-time diagnostics, reducing debugging time by **60%**.
- Conducted **10+ integration cycles**, improving system stability and cutting recalibration effort by **40%**.

PROJECTS

DevOps Portfolio Deployment Project

Built an end-to-end CI/CD pipeline using Jenkins and Docker, reducing deployment time from **20 minutes to under 5 minutes**. Provisioned AWS infrastructure via Terraform and automated server configuration using Ansible. Achieved high availability with CloudWatch-based auto-recovery and supported **100+ concurrent sessions** through containerized Nginx reverse proxy.

WellnEase – AI Wellness Tracker App

Designed a wellness tracker using Flutter and Dart, enabling users to log mood, heart rate, and sleep. Delivered a functional MVP in **under 3 weeks**, tested by **20+ pilot users**. Improved daily engagement with a personalized AI chatbot and implemented intuitive UI from Figma prototypes with smooth navigation flow.

GSM & GPS-Based Women's Safety System

Developed a wearable alert system using Arduino, GPS, and GSM modules to support location tracking and emergency SOS. Piloted with a user group in vulnerable environments and recorded average alert delivery within **3 seconds**. Streamlined hardware layout to reduce production cost and supported accurate geo-positioning within **8-meter radius**.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, HTML, CSS, Bash

Frameworks & Tools: Flutter, Figma, Git, GitHub, Arduino, VS Code

Databases: MySQL, PostgreSQL

Cloud & DevOps: Terraform, Docker, Kubernetes, Jenkins, Ansible, AWS (EC2, S3, IAM), Nginx, Linux