SHIVAKUMAR BOBBALI

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SUMMARY

Aspiring **DevOps Engineer** with a Master's in Computer Science and hands-on experience in **automating deployments, building CI/CD pipelines, and managing infrastructure-as-code** across cloud environments. Proficient in scripting, Linux system administration, and performance troubleshooting to **optimize integration, monitoring, and deployment workflows**. Adept at collaborating in fast-paced environments to **drive operational efficiency, enhance scalability, and support infrastructure reliability**.

EDUCATION

University of Dayton — **Aug 2023 - May 2025**
Master, Computer Science — *Dayton,OH*
- **GPA:** 3.6
- **Coursework:** Advanced Programming, Deep Learning, Operating Systems, Data Structures, Algorithm Design

WORK EXPERIENCE

Path Creators — **Jan 2023 - Jun 2023**
DevOps & Python Automation Intern — *Hyderabad, India*
- Automated data analysis and reporting scripts using Python and Bash, **reducing manual processing time by 50%** and saving **3+ hours per week**, aligning with CI automation practices.
- Developed data visualization tools with Matplotlib, **enabling 2x faster decision-making** on product metrics.
- Collaborated with QA and DevOps teams to resolve **12+ backend issues** on Linux systems, **enhancing sprint throughput by 30%**.
- Optimized code modularization and performance tuning, **reducing tool response time from 2.5s to 0.9s** through effective systems troubleshooting.

Path Creators — **Jun 2019 - Jul 2019**
Robotics Technician Intern — *Hyderabad, India*
- Led the development of an **obstacle-avoiding robot**, applying navigation algorithms to solve real-world mobility challenges.
- Strengthened expertise in embedded systems and troubleshooting, **reducing integration errors by 40%** during prototyping.
- Collaborated with a cross-functional team to coordinate tasks and streamline the robot's system integration process.
- Managed project execution with efficient task planning, **completing deliverables ahead of deadlines** and gaining hands-on exposure to structured, outcome-driven workflows.

PROJECTS

Cloud-Native Portfolio Deployment (AWS | Jenkins | Docker | Terraform) | Link — **May 2025 - May 2025**
Dayton, OH
- Built an end-to-end CI/CD pipeline using Jenkins and Docker, **reducing deployment time by 75% (20 '5 minutes)**.
- Provisioned AWS infrastructure with Terraform and automated server configuration using Ansible, **eliminating 90% of manual errors**.
- Implemented CloudWatch-based auto-healing and containerized Nginx reverse proxy, **supporting 100+ concurrent sessions with zero downtime**.
- Integrated automated build/test stages and Docker image management to **strengthen release reliability**.

WellnEase – AI Wellness Tracker App | Link — **Mar 2025 - Apr 2025**
Dayton,OH
- Developed a cross-platform wellness tracker in Flutter and Dart, enabling users to log mood, heart rate, and sleep metrics.
- Delivered a functional MVP in **under 3 weeks**, validated by **20+ pilot users** with positive usability feedback.
- Integrated an AI-powered chatbot, **boosting daily engagement by 35%** during pilot testing.
- Converted Figma prototypes into a responsive UI, **improving navigation flow and overall usability**.

GSM & GPS-Based Women's Safety System — **Apr 2022 - Jul 2022**
Hyderabad,India
- Designed a wearable emergency alert system using Arduino, GSM, and GPS modules to enable real-time SOS tracking.
- Achieved average **alert delivery under 3 seconds** and geo-positioning accuracy within an **8-meter radius**.
- Streamlined hardware design, **reducing production cost by 15%** while maintaining robust performance.
- Collaborated with pilot users in vulnerable environments to **refine system reliability and usability**.

TECHNICAL SKILLS

- **Cloud & DevOps**: CI/CD Pipelines, Terraform, Docker, Kubernetes, Jenkins, Ansible, AWS (EC2, S3, IAM,ECR, CloudWatch), Nginx, Linux, Prometheus, Grafana
- **Programming & Scripting**: Python, C/C++, HTML, CSS, Bash, Shell Scripting
- **Databases**: MySQL, PostgreSQL
- **Frameworks & Tools**: Flutter, Figma, Git, GitHub, Arduino, VS Code, Jira, Confluence