Prajwal Venugopal

+1 812-322-4878 | pvenugop@iu.edu | linkedin.com/in/PrajwalVenugopal | github.com/PRAjwal03714

EDUCATION

Indiana University Bloomington — Bloomington, Indiana, USA
Master of Science in Computer Science — May 2026
- GPA: **3.9/4.0**
- Relevant Coursework: Applied Algorithms, Big Data Applications, Software Engineering

Visvesvaraya Technological University — Bengaluru, India
Bachelor of Engineering in Computer Science — May 2024
- GPA: **8.95/10.0**
- Relevant Coursework: Data Structures, Object Oriented Programming, Cloud, Web Technology, Data Analytics

WORK EXPERIENCE

Software Engineer Intern — Bengaluru, India
Celstream Technologies — Feb 2024 – Jul 2024
- Enhanced Buckman web application, a leading provider of chemical solutions, using React, supporting up to 1,000 daily users for a seamless experience.
- Collaborated with cross-functional teams to migrate legacy JavaScript products to React, boosting development efficiency and teamwork.
- Resolved 10+ critical bugs in live projects, improving application stability and user satisfaction.

DevOps Engineer Intern — Bengaluru, India
Verana Networks — Aug 2023 – Oct 2023
- Improved web application performance for CU services with BusyBox server, shell scripts, and Unix commands, reducing response times by 30%.
- Automated routine maintenance tasks using Unix commands and scripting, reducing manual intervention by 50% and saving the team an estimated 10 hours per month.
- Designed and deployed monitoring tools that improved system uptime by 15%, allowing for early detection and swift resolution of potential issues.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, Tailwind CSS, HTML, CSS, Gremlin
Tools/Frameworks: React JS, AWS, MySQL, PostgreSQL, Docker, PySpark, Git, Microsoft Azure
Topics: TCP/IP protocols, REST API, Linux, OS, Machine Learning, Graph Database, Delta Lake

PROJECTS

Noble Cure - Health Care Platform | *Regression Algorithm, Flask, HTML/CSS, PostgreSQL*
- Created a healthcare platform using Python and regression algorithms, processing 200+ prescriptions daily.
- Developed a user-friendly interface with Flask and HTML/CSS, and integrated PostgreSQL, increasing user engagement by 20% and data accuracy by 70%.

MuteSign: Deep Learning Sign Language Recognition | *TensorFlow/Keras, OpenCV, Python, Scikit-learn, Pandas*
DOI: 10.1109/IC-RVITM60032.2023.10435143
- Built a Sign Language Recognition system with CNNs and RNNs, achieving 96% accuracy.
- Executed a multi-stage approach: data acquisition from 1,000 videos, pre-processing, segmentation, feature extraction, and classification, enhancing communication for individuals with physical impairments.

Automated Water Meter Reader | *Arduino Uno, Python, Google Cloud, Google Vision, Twilio API*
- Integrated ESP32 camera modules with meters, reducing billing errors by 90% and enhancing reliability.
- Implemented real-time alerts using Twilio API, ensuring timely notifications for anomalies, improving customer trust and billing accuracy.

AI Driven Urban Traffic Optimization | *IoT, Blockchain*
DOI: 10.22214/ijraset.2023.56630
- Streamlined traffic flow using AI and IoT, cutting congestion by 30%, while bolstering data integrity with blockchain, reducing breaches by 40% and securing 1,000+ transactions.

CERTIFICATIONS & AWARDS

- Obtained **Microsoft Certified: Azure AI Fundamentals and Azure Fundamentals.**
- Earned **AWS Academy Graduate** status in the **AWS Academy Cloud Foundations** program, gaining foundational knowledge of cloud computing and AWS technologies.
- Achieved **1st place** in the highly competitive **Meraki 2023 International Business Plan Competition**, organized by CIET, FIIB, outperforming 50+ teams from top-tier institutes such as IITs, IISC, and IIMs.