

Prajwal Venugopal

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EDUCATION

Indiana University Bloomington

Master of Science in Computer Science

Bloomington, Indiana, USA

May 2026

Visvesvaraya Technological University

Bachelor of Engineering in Computer Science

Bengaluru, India

May 2024

- GPA: **8.95/10.0**

- Relevant Coursework: Data Structures, Object Oriented Programming, Cloud, Web Technology, Data Analytics

WORK EXPERIENCE

Software Engineer Intern

Celstream Technologies

Bengaluru, India

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

Verana Networks

Bengaluru, India

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, Core Java, C, JavaScript, Tailwind CSS, HTML, CSS

Tools/Frameworks: React JS, MySQL, Git

Topics: TCP/IP protocols, REST API, Linux, OS, Machine Learning

PROJECTS

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.

MuteSign: Deep Learning Sign Language Recognition | *Research Work*

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.

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%.

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

- 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.