

# SWETHA PRAKASH

Binghamton, NY | (607) 309-7352 | sprakash@binghamton.edu | Swetha/linkedin | Swetha/github | Portfolio

## EDUCATION

**Binghamton University, SUNY, Thomas J. Watson College of Engineering and Applied Science**

Master of Science in Computer Science

Cumulative GPA: 3.78/4.00

Binghamton, NY

Expected Dec 2025

**SASTRA Deemed University, School of Computing**

Bachelor of Technology in Computer Science and Engineering

Cumulative GPA: 3.48/4.00

Thanjavur, India

May 2024

## TECHNICAL SKILLS

**Programming Languages :** Java, Python, C++, C, JavaScript, HTML, CSS

**Frameworks & Libraries :** Spring Boot, React, React Native, Express.js

**Databases & Backend Services :** MongoDB, Supabase, MySQL, PostgreSQL, REST APIs

**Tools & Platforms :** Postman, Android Studio, Eclipse, IntelliJ, Visual Studio Code, Git, Linux, Anaconda

## PROFESSIONAL EXPERIENCE

**Uplifty AI, Team Lead, iOS & Android App Developer, UI/UX Developer** | Austin, TX

Aug 2025 – Present

- Led a cross-functional team of 20 developers and 10 designers, aligning UI/UX workflows with backend architecture to deliver 15 scalable mobile features, ensuring efficient integration between design and engineering.
- Developed and optimized React Native mobile features such as user authentication, dashboard, and gamified Challenges section, increasing new user sign-ups and driving a 50% rise in active engagement
- Optimized API integrations between mobile front-end and a Python Flask backend architecture, reducing latency by 30% and improving app reliability
- Collaborated with the product development team to convert user requirements into scalable technical solutions, leading to a 15% increase in system efficiency

**Global Health Impact (GHI), Full-Stack Intern** | Binghamton, NY

Jan 2025 – Aug 2025

- Provided research and technical support to GHI, a World Health Organization (WHO) global initiative, enabling the evaluation of essential medicine access in over 50 different countries through a new global health index
- Built interactive visualizations and responsive UI components using React, HTML, CSS, and JavaScript, to make global medicine access data clearer and easier to use for health researchers and decision-maker
- Collaborated with a cross-functional team of 12 developers and 10 researchers to design and implement visual tools such as bar charts, pie charts, and geographic maps that support GHI's global health mission

**Optum, Java Backend Developer Intern** | Hyderabad, India

Jun 2023 – Aug 2023

- Contributed to the development of a U.S.-based Value-Based Reimbursement (VBR) system aimed at improving healthcare outcomes by aligning provider payments with patient results
- Developed backend features using Java Spring Boot and implemented Aspect-Oriented Programming (AOP) to improve logging, reduce errors, and help developers monitor system activity
- Liaised with U.S.-based engineering teams to align backend architecture and ensure reliable deployment of services within the Value-Based Reimbursement platform

## PROJECT EXPERIENCE

**Depression Detection using Sentiment Analysis, Big Data Analytics**

Jan 2024 – Mar 2024

- Tackle the growing concern of mental health by developing a machine learning framework to identify individuals at risk of depression based on Facebook activity and social interaction patterns
- Build a machine learning pipeline in Python using Jupyter Notebook, implementing and comparing seven algorithms, including Random Forest, which achieved 95% accuracy on sentiment-labeled Facebook

## LEADERSHIP EXPERIENCE

**Binghamton University School of Computing, Teaching Assistant**

Jan 2024 – Aug 2025

- Provide instructional and academic support for a Python programming course with 300+ students, reinforcing foundational programming concepts including loops, functions, and data visualization with Matplotlib and Pandas
- Coordinate with the lead instructor to design course content and study guides, provide one-on-one coding support, and deliver targeted feedback on logic, and debugging practices to improve student performance

## ADDITIONAL LANGUAGES

**Japanese** - Cleared level N5 and N4, **English** - Full working proficiency, **Tamil** - Native Lingual