SAMARTH VAMSHY S

Aspiring Software Engineer

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CAREER OBJECTIVE

Final year Computer Science student passionate about Java software development and building scalable applications. Completed 4-month internship in AI/ML research while developing web applications and APIs. Strong foundation in Java programming with hands-on experience in full-stack development, database optimization, and collaborative software engineering. Eager to contribute technical skills in Java development role and grow as a software engineer in a dynamic team environment.

TECHNICAL SKILLS

Programming Languages: Java, C, Python
Web Technologies: Node.js, HTML5, CSS3, Bootstrap, Ajax, APIs
Frameworks & Libraries: Django, jQuery
Databases: MySQL, MongoDB, Firebase
Tools & Technologies: Git, GitHub, Agentic Coding

INTERNSHIP

Software Development Intern (AI/ML Research & Development)   *4 months*
Vuon Technologies

- Developed histopathology.ai, a web-based diagnostic platform enabling medical professionals to upload microscopic tissue images for instant cancer detection and analysis
- Built full-stack application using HTML, CSS, and JavaScript, integrating custom-trained deep learning model achieving 91.3% accuracy and 89.7% sensitivity on validation set of 3,200 histopathological images
- Trained convolutional neural network on dataset of 15,400 annotated medical images with 87.2% precision in identifying cancerous regions, implementing visual heatmap overlay for region highlighting
- Implemented image preprocessing pipeline with automated quality checks handling 180-220 daily uploads, optimized model inference reducing analysis time to 2.8 seconds per image
- Collaborated with medical researchers to validate AI predictions against pathologist diagnoses across 520 test cases, achieving 86.5% concordance rate and identifying 3 critical diagnostic patterns

PROJECTS

Hospital Management System | Group Leader   *2023 - 2024*
Technologies: HTML, CSS, MongoDB, Bootstrap

- Led 4-member team in designing backend architecture with CRUD operations and JWT authentication system
- Implemented database indexing reducing query response time from 500ms to 50ms, achieving 92% faster data retrieval
- Deployed on RaspberryPi server handling 150+ concurrent users with 98.5% uptime

E-Commerce Platform with Augmented Reality | Group Leader   *2025 - Present*
Technologies: HTML5, CSS3, JavaScript, Bootstrap, AR.js, WebRTC, MediaPipe

- Led 3-member team in building full-stack e-commerce platform with AR product visualization and interactive 3D model rendering
- Integrated AR.js and WebRTC for real-time 3D product preview, implementing virtual try-on feature with 32% improvement in user engagement
- Optimized media pipeline achieving <2s load time for AR models and smooth 60fps rendering across 15+ product categories

Personal Portfolio Website   *2024 - Present*
Technologies: HTML5, CSS3, JavaScript, EmailJS API, GitHub Pages

- Developed and deployed responsive portfolio on GitHub Pages with 520+ monthly visitors and 3.2min average session duration
- Integrated EmailJS API for automated contact form, reducing inquiry response time by 78% with real-time email notifications

EDUCATION

B.Tech Computer Science Engineering   *Expected Graduation: June 2026*
Presidency University, Bengaluru, Karnataka, India

12th Grade - 68%   *2022*
St Vincent Pallotti School

10th Grade - 92.6%   *2020*
St Vincent Pallotti School

CERTIFICATIONS

- Java Pro — Codechef
- Data Structures & Algorithms in Java — CodeChef
- SQL — Hackerrank
- ReactJs(Basic) — Hackerrank

LEADERSHIP & POSITIONS OF RESPONSIBILITY

Promotional and Operational Head   *2024-25*
Omega Coding Club, Presidency University

Member   *2022-23*
Debate Society, Presidency University