Shreevatsa Ganapathy Hegde

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https://github.com/vatsa-hegde

Education

University of Washington, Bothell   Mar 2026
Master of Science in Computer Science | GPA: 3.95

Visvesvaraya Technological University (VTU), India   Aug 2021
Bachelor of Engineering in Computer Science | GPA: 3.94

Technical Skills

Programming Languages & Frameworks: Java, Python, C++, JavaScript, Spring Boot, Flask, Node.js, React.js
Databases & Cloud Technologies: MySQL, PostgreSQL, SQL, AWS, Firebase, Azure
Operating Systems & DevOps Tools: Linux, Windows, Git, Jenkins

Professional Experience

Graduate Research Assistant | University of Washington, Bothell   Jun 2025 - Present
- Led a 5-member team to develop a full stack linguistic transcription platform, streamlining researcher workflows and boosting productivity by 20%.
- Built secure web systems with CI/CD (GitHub + Heroku), reducing manual efforts by 80%.
- Documented and standardized transcription workflows, gaining strong insights on Software Development Life Cycle.
- Optimized relational database and Firebase cloud queries to store audio, reducing average data retrieval time by 35%.

Software Engineer | Accenture Solutions Private Limited, India   Mar 2023 - Aug 2024
- Designed 6+ Spring Boot microservices and REST APIs for large-scale distributed systems, reducing latency by 30%.
- Automated CI/CD pipelines with Jenkins and Gradle, reducing deployment time by 20% and improving observability.
- Built responsive React, TypeScript, and Redux web interface for a banking mortgage app, enhancing user experience.
- Leveraged data structures and algorithms to enhance backend performance, improve API response times to under 1.2s
- Mentored junior developers through 100+ code reviews, enforcing security, design pattern usage, and coding standards in agile teams and enhancing code quality and maintainability.

Application Development Associate | Accenture Solutions Private Limited, India Dec 2021 - Feb 2023
- Integrated Learning Management System (SaaS) with client infrastructure, reducing response time by 10%.
- Resolved 95% of technical issues within SLA through bug fixes and debugging, boosting user satisfaction by 10%.
- Contributed to requirement analysis and end-to-end SDLC activities, collaborating and communicating cross-functionally to align technical solutions with business needs.

Certifications

McKinsey.org Forward Program, McKinsey & Company   Jul 2025
AWS Certified Cloud Practitioner, Amazon Web Services Training and Certification   Dec 2023

Academic Projects

Distributed Tic-Tac-Toe using Java, Sockets, SSH, and Multithreading   Apr 2025 - Jun 2025
- Implemented an online multiplayer Tic-Tac-Toe with AI opponent and two-node remote play, using sockets and multithreading to improve synchronization reliability by 70%.

Mobile Agent System with Inter-Agent Communication and Spawning   Apr 2025 - May 2025
- Developed a Java mobile agent system enabling migration across 5+ servers with JSCH, supporting inter-agent communication and spawning 10+ child agents with synchronized multi-threading.

FarmConnect Web Portal using Flask and Bootstrap   Jan 2025 - Mar 2025
- Built a full-stack web application with HTML5, CSS3 & JavaScript (ES6) to provide farmers with company details, agricultural practices, and application insights, supported by a responsive Flask backend.

Smart Waste Sorting System using Raspberry Pi and Artificial Intelligence   Sep 2024 - Dec 2024
- Developed a Python YOLOv3 + OpenCV system to classify waste into 3 categories with 96% accuracy, enabling faster automated segregation using Raspberry Pi equipped edge devices with JSON based communication.