Vishwas Mattur Harish

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Education

Master of Science in Computer Science   Expected May 2025
Arizona State University, Tempe, Arizona (Current GPA: 4.0)
Relevant coursework: Artificial Intelligence, NLP, Software Security, Software Verification Validation & Testing

Bachelor of Engineering in Computer Science and Engineering   April 2020
Sir M Visvesvaraya Institute of Technology (affiliated to Visvesvaraya Technological University), Bengaluru, India

Skills

Programming Languages: HTML, CSS, JavaScript, TypeScript, ReactJS, Angular, NodeJS, ExpressJS, Python, R, SQL, C, Java, PHP, XML.
Tools: Jest, Figma, Git, APIs, VSCode, GraphQL, Selenium, Microsoft Office, WordPress, Docker, Webpack, Agile, Jira.
Machine Learning Frameworks: TensorFlow, Keras, NumPy, PyTorch, Pandas, Scikit-learn.

Professional Experience

Software Developer III, UST, Bengaluru, India   January 2023 – July 2023
- Spearheaded the design and implementation of high-performing software solutions, utilising ReactJS, Node, Express, and SQL, resulting in a 20% enhancement in application performance and improved user experience.
- Improved API response times and failure rates by implementing GraphQL APIs while reducing server load.
- Led the team in establishing new auto-deployment pipelines and automated test cases, streamlining development processes, and boosting software testing efficiency by ~30%.

Software Engineer, Piktorlabs, Bengaluru, India   September 2021 – January 2023
- Collaborated with cross-functional teams to develop user-centric interfaces for 4 projects.
- Mentored 2 junior colleagues, accelerating web application delivery, and saving project resources by 15%
- Crafted a client-specific web application from scratch, delivering a tailored solution 10 days ahead of schedule.

Associate Software Engineer, Accenture, Bengaluru, India   December 2020 – September 2021
- Achieved a 25% increase in code coverage through refined automated tests using ReadyAPI and Selenium.
- Diagnosed and rectified over 50 API errors, substantially enhancing application stability.
- Executed over 100+ automated and manual tests on healthcare applications, providing detailed feedback that led to a 15% reduction in error rates, while ensuring full compliance with PHI confidentiality and security standards.

Software Engineering Intern, Samartha Infosolutions, Bengaluru, India   July 2019 – August 2019
- Engineered a cross-platform reporting solution, resulting in a 20% improvement in operational efficiency.

Community Experience

Teaching Volunteer, Abhikalpana Trust, Bengaluru, India   August 2017 – August 2020
- Empowered over 100 underprivileged children, contributing to a remarkable 10% reduction in school dropouts.
- Coordinated two medical camps, providing health check-ups for more than 60 children.

Board Member, Abhikalpana Trust, Bengaluru, India   August 2019 – August 2020
- Orchestrated 2 impactful fundraising events, exceeding set goals and benefiting diverse social causes.
- Catalyzed a Climate Change Awareness Campaign, assigning key responsibilities to nearly 80 volunteers.

Academic Projects

Modelling Collective Behaviour in Ants   April 2024
- Implemented a spatial agent-based model to study decision making and allocation of resources in ants.

Private Data Collection using Negative Surveys   March 2024
- Utilized negative survey responses and statistical methods to map disease prevalence across cities using Python-based visualizations and heatmaps.

Reinforcement Learning for Language Models   December 2023
- Developed RL models to improve logical reasoning capabilities of Large Language Models.

Food Decoder   January 2020
- Created a Deep Learning model to generate recipes from images with an accuracy of 80%.

Factory-Outlet Database System   March 2017
- Developed a comprehensive GUI tool for the creation and administration of orders and customer management.