

# Vishwas Mattur Harish

vmharish@asu.edu | (623) 213-4906 | linkedin.com/in/vishwas-m-h | https://sqvish99.github.io/vishwas-app

## Education

### Master of Science in Computer Science

Expected May 2025

Arizona State University, Tempe, Arizona (Current GPA: 4.0)

### 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, NodeJS, ExpressJS, Python, R, SQL, C, PHP.

**Tools:** Jest, Figma, Git, APIs, VSCode, GraphQL, WordPress, Selenium, Microsoft Office, Postman, Webpack, Agile, Jira.

**ML/AI:** TensorFlow, Keras, NumPy, PyTorch, Pandas, Scikit-learn, OpenAI API, BERT.

## Professional Experience

### Software Developer III, UST, Bengaluru, India

January 2023 – July 2023

- Optimized API response times and reduced failure rates through strategic implementation of GraphQL APIs, simultaneously decreasing server load by 25%.
- Executed critical data migration, transferring confidential assets from GitHub to secure proprietary systems, upholding organizational integrity.

### Software Engineer, Piktrolabs, Bengaluru, India

September 2021 – January 2023

- Engineered advanced CI/CD pipelines and test suites, driving 30% boost in testing efficiency, reducing downtime, accelerating error resolution, and enhancing customer satisfaction
- Mentored 2 junior colleagues, expediting web-app delivery and reducing project resource consumption by 15%

### Associate Software Engineer, Accenture, Bengaluru, India

December 2020 – September 2021

- Improved code coverage by 25% through implementation of advanced automated tests.
- Identified and resolved over 50 API errors, significantly enhancing application stability.
- Conducted 100+ automated and manual tests on healthcare applications, providing comprehensive feedback that reduced error rates by 15% while ensuring strict adherence to PHI confidentiality and security standards.

### Software Engineering Intern, Samartha Infosolutions, Bengaluru, India

July 2019 – August 2019

- Developed a cross-platform reporting solution, driving a 20% improvement in operational efficiency.

## Community Experience

### Teaching Volunteer, Abhikalpana Trust, Bengaluru, India

August 2017 – August 2020

- Nurtured over 100 underprivileged children, contributing to a 10% decrease in school dropout rates.
- Delivered engaging science and mathematics instruction to diverse student groups, tailoring teaching methods to accommodate various age groups and ability levels.

### Board Member, Abhikalpana Trust, Bengaluru, India

August 2019 – August 2020

- Led a Climate Change Awareness Campaign, effectively coordinating and delegating responsibilities to a team of 80 volunteers and ensuring a successful event spanning across 7 days.
- Built and maintained a WordPress website, optimizing themes, plugins, and content to enhance functionality.

## Academic Projects

### Problematic Internet Usage

November 2024

- Used Data Mining techniques to develop a predictive model for analyzing children's physical activity data to detect early indicators of problematic internet and technology use.

### AI Letter Writing Assistant

August 2024

- Employed OpenAI APIs with tailored prompts and a React.js Frontend to create a letter writing assistant.

### 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 model with a bespoke reward function to improve logical reasoning capabilities of LLMs.

### Food Decoder

January 2020

- Created a Multi-Modal Deep Learning model to generate recipes from images with an accuracy of 80%.