Harshavardhan Kuthadi

(602) 741-4354 hkuthadi@asu.edu linkedin.com/in/hkuthadi/ https://github.com/harsha0602/ Web Portfolio

Education

Arizona State University **Expected Graduation: May 2026**

Master's in Computer Software Engineering *AZ, USA*

- GPA: 3.89
- Courses: Foundations of Software Engineering, Intro to Programming Languages, Software Requirements and Spec, Adv Data Structures and Algorithms, Operating Systems, Software Project Process and Quality Management

National Institute of technology Karnataka **May 2022**

Bachelor's in Electronics and communications engineering *KA, India*

Technical Skills

Languages: Python, SQL, HTML5, CSS, JavaScript, C, C++, C#, Solidity

Developer Tools: AWS, Postman, Jenkins, Azure, Docker, Jira, Figma, MATLAB

Libraries/Frameworks: ReactJS, MS SQL, NodeJS, Kendo UI, Pytorch, jQuery, .NET, Jasmine

Work Experience

O9 Solutions, Inc. **Jul 2022 – Jul 2024**

Software Development Engineer *Bengaluru, India*

- Developed **UIs** for supply chain tools using **JavaScript, jQuery,** integrating Git for version control and visualizing complex supply chain data.
- Built a responsive grid for merging and resolving Git conflicts, leveraging **Kendo UI** and **.NET Core**, enhancing workflow efficiency for platform users.
- Created and managed various end-to-end full-stack modules using **.NET Core, C#, MSSQL,** and **Azure DevOps**, improving Git repository and branch accessibility with user-specific edit permissions.
- Led development lifecycle phases, using **Jasmine** and **MSTest**, ensuring 30% test coverage and reducing bug reports during the QA phase.
- Refactored unit tests written in **JavaScript** with Jasmine, reducing the codebase by 10,000 lines and significantly improving system robustness and test execution time.
- Fixed over **200 bugs** across the platform written in C# and JavaScript, ensuring seamless functionality and enhancing user satisfaction.
- Drafted release notes, bug reports and Concept of Operations to capture operational requirements and track updates.

OpenNets **Apr 2021 – Jun 2021**

Software Development Intern *Bengaluru, India*

- Developed a versatile network simulator tool using **Mininet, Node.js, and MongoDB** to enhance network design and testing capabilities.
- Simulated network topologies with Mininet, enabling comprehensive traffic testing and evaluation of network performance under various configurations.
- Collaborated on product development with engineers, utilizing Git and Agile methodologies to deliver iterative improvements and ensure product alignment with user needs.

Projects

Performance enhancement of underwater communication: **MATLAB | Simulink | NumPy**

- Constructed a **machine learning** model in MATLAB for light propagation in ocean waters, aiming to validate improved data rates and wireless capabilities for underwater free space optical links, addressing bandwidth limitations of acoustic communication. Used NumPy, Simulink libraries.

Senti Chat — real-time sentiment analysis chat: **React.js**

- Developed SentiChat, a real-time sentiment analysis chat application using React.js. Designed a responsive UI with React.js, optimized performance through server-side rendering with **Next.js**, and implemented real-time messaging via **Pusher**. Integrated sentiment analysis APIs on the backend using **Express.js**, enabling instant feedback on user inputs.

Image Restoration of Natural Images: **Pytorch | Python**

- Developed an image restoration project focused on de-raining natural images using **PyTorch** created a CNN-based encoder-decoder network, with ORSNet applied in the final stage.