Harish Jaisankar
Active Top Security Clearance

US Citizen | harish.jaisankar@gmail.com | 313-870-8029 | linkedin.com/in/harishjai | harish-portfolio-zeta.vercel.app

EDUCATION

University of Michigan   Expected Graduation, May 2025
BSE in Computer Science, Minors in Mathematics and Multidisciplinary Design   *Ann Arbor, MI*
Related Coursework: Data Structures & Algorithms, Computer Networks, Distributed Systems, Machine Learning, Web Systems, Computer Architecture, Machine Learning for Embedded Systems, Probability and Stats, Financial Math

WORK EXPERIENCE

DevOps Software Engineering Intern   Jan 2024 – Present
Northrop Grumman   *Dulles, VA*
- Optimized periodic **Jenkins** pipelines to restart automatically, saving **30 minutes** of waiting time each morning
- Implemented autonomous **OpenSCAP** security compliance scans to enhance code safety on **50+ pull requests**
- Established **Kubernetes** services monitoring over 5 VM clusters, utilizing Prometheus to collect performance data and providing a real-time display via **Grafana**, improving system visibility and reducing downtime by **30%**
- Shipped a desktop application leveraging **ElectronJS, React, Typescript, Elixir/Erlang**, and **Docker**, enabling developers to generate custom unit tests
- Adapted base Mistral7B model with RAG and hyperparameter configuration, achieving **80% branch and statement coverage** in test generation
- Created a **Python** script capable of contextualizing code to help LLMs understand external software dependencies

Software Development Intern   May 2023 – Apr 2024
Trinity Health   *Ypsilanti, MI*
- Built a mobile-friendly web application, enabling system refresh team to keep track of where hospital devices are located, resulting in a **65% reduction** in weekly man hours
- Executed scripts to convert Cube JSON objects to YAML and debugged misalignment in 85 files
- Created a front-end data visualization website with **over 1600 measures and dimensions**
- Engaged in weekly mentor meetings with peer programming and routine unit testing

Full-Stack Web Developer   Jul 2022 – Jan 2023
Enable Point Inc.   *Livonia, MI*
- Developed a new digital certification product with **C#, ASP.NET**, and the Model View Controller framework
- Handled feature enhancement tickets for large-scale products, leading to a **12% reduction** in customer requests

PROJECTS

Moodi | *Python, NLTK, Flair, React, Flask*   Jul 2024 – Present
- Web scraping tweets using Playwright to obtain data regarding public sentiment about publicly traded companies
- Processing through using Pandas and NLTK in preparation for sentiment analysis
- Predicting whether companies will trade higher or lower based on aggregate sentiment score with TensorFlow

VT Seva Charity Walkathon Tracker | *Typescript, React, NodeJS, AWS DynamoDB*   Aug 2024 – Present
- Helping improve an NPO's custom website for tracking activity during charity walkathon events
- Implemented statistics summary visualizations on users' profile pages using **TypeScript** and **Prime React**

PairWise | *Python, Pyomo, Linear Algebra, Linear Optimization*   May 2018 – May 2020
- Built a model enabled by Python Pyomo to create the best mentor-mentee pairings given input parameters
- Uses linear optimization given a decision variable set to build a score matrix of each possible pairing

SKILLS

Languages: Python, C++, Java, C#, C, JavaScript, TypeScript, Groovy, R, SQL
Frameworks: TensorFlow, PyTorch, Scikit-learn, NLTK, React, Flask, Node.js, Express.js, Matplotlib, .NET
Tools: Git, Bitbucket, Jenkins, AWS, Docker, Kubernetes, Power BI, SSMS, PostgreSQL