

HARSH MISHRA

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Technical Skills

Languages: Python, C++, JavaScript, Golang, BASH, SQL
Frameworks: ReactJS, Express, Django, Flask, FastAPI, Tensorflow, Scikit-Learn
Tools: Kubernetes, Docker, Selenium, Amplify, MySQL, SQLite, Neo4j, PyTest, Terraform, Git
Platforms: Web, GNU/Linux, OpenShift, Amazon Web Services, Azure DevOps, GitHub Actions

Work Experience

HackerRank

January 2022 – Present

Software Development Engineer Intern (Editors & Platform)

Remote

- Developed initial prototypes to enable Python interpreter & REPL execution on browser using WebAssembly.
- Automated deployment of an internal bundling & preview library over a static file server via Google Container Registry.
- Integrated a Runtime Error Overlay for our internal bundling & preview library to improve the developer experience.

Quansight

July 2021 – September 2021

Software Engineer Intern (Labs)

Remote

- Innovated compiler caching using Ccache to reduce the CI build time by 70% over GitHub Actions.
- Collaborated with senior engineers to migrate Scipy's build system to Meson & parallelizing CI providers.
- Improvised benchmarking on the CI pipelines for SciPy using Airspeed Velocity & GitHub Actions.

Google Summer of Code

May 2021 – August 2021

Student Developer at MetaCall (Open-Source)

Remote

- Developed an IPython kernel for cross language function calls between Python and NodeJS using the Core library.
- Devised a Polyglot REPL using NodeJS & Core for the kernel along with enhancing the UX for the Jupyter client.
- Implemented CI/CD using GitHub actions and deployed the kernel using Docker and Binder over a Web interface.

Projects

WebFlux | *NextJS, Flask, Beautiful Soup, Python, Heroku*

January 2021

- Innovated a Full Stack Software-as-a-Service (SaaS) Web Application for automated search engine optimization.
- Created a CLI tool for scrapping markup from websites for intelligent analysis and tested over 300+ websites.
- Incorporated abstraction layer APIs using Flask-RESTful, with efforts being made to minimize server latency.

Qxf2 Survey | *React, Neo4j, FastAPI, AWS EC2, NGINX*

October 2020

- Built a Survey application using ReactJS and FastAPI used over 30+ employees weekly for professional engagements.
- Chalked out the Graph schema on Neo4j and configured deployment using GitHub Actions and Docker over AWS EC2.
- Migrated the database storage of the Internal survey application from Quilt to Neo4j using a Python Pandas script.

NewsFresh | *Django, Sklearn, NLTK, Bootstrap, MySQL*

March 2020

- Ideated a Full-Stack fake news and misinformation tracker powered with Machine Learning and crowd-sourcing.
- Devised Machine learning models with Sklearn and NLTK to detect fake news, with over 90-percent accuracy.
- Created web scrappers to scrap over 20,000+ news articles in real-time and worked on the frontend interface.

Achievements & Awards

Hackathons: Capgemini Codealre Winner, MLH Fellowship Sprint 0 & 4 Winner, Hack4Good & Hack Infinity 2.0 Runner-Up, MHRD Project Expo Second Runner-Up

Competitions: Competitive Coding by School of Computing Winner, Google Cloud Platform Champ

Scholarships: Bertelsmann Tech Scholarship, Intel Edge AI Scholarship, Nutanix Hybrid Cloud Scholarship

Volunteering Experience

Community Manager

March 2022 – Present

Moja global (The Linux Foundation)

Community Lead

July 2021 – Present

Google Developer Student Clubs - SIST

Education

Sathyabama Institute of Science and Technology

August 2018 – December 2022

Bachelor of Engineering in Computer Science and Engineering; CGPA: 8.6

Chennai, India