

# HARSH MISHRA

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## Technical Skills

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**Languages:** Python, JavaScript, Golang, HTML/CSS, SQL  
**Platforms:** Linux, Amazon Web Services, Google Cloud Platform, OpenShift, Heroku  
**Tools:** Git, MySQL, SQLite, MongoDB, Neo4j, Selenium, Amplify, Docker, GitHub Actions  
**Libraries/Frameworks:** Django, Flask, React, Tensorflow, Scikit-Learn, NodeJS, Express, Jest

## Work Experience

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### Quansight Labs

July 2021 – September 2021

*Software Developer Intern*

*Remote*

- Revamped Continuous Integration pipelines for Scipy using GitHub Actions and Azure DevOps.
- Implemented build caching and compiler caching using Mozilla's sccache for reduced build times.
- Collaborated with senior engineers to migrate Scipy's build system to Meson and parallelizing CI providers.

### Google Summer of Code

May 2021 – August 2021

*Student Developer at MetaCall*

*Remote*

- Developed the initial product centred around building an IPython kernel for cross language function calls.
- Integrated a Polyglot REPL to the kernel and improved user experience features with the Jupyter client.
- Implemented CI/CD using GitHub actions and containerized deployment with Binder for Web interface.

### Qxf2

July 2020 – October 2020

*Software Engineer Intern*

*Remote*

- Developed an Internal Survey Application using React, FastAPI, and Neo4j and deployed on AWS EC2.
- Implemented CI/CD using GitHub Actions along with troubleshooting all server-side and deployment bugs.
- Automated the migration of Quilt Database to Neo4j and wrote scripts for automated Web Application Testing.

## Projects

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

January 2021

- Innovated a Full Stack Software-as-a-Service (SaaS) Web Application for automated search engine optimization.
- Developed a CLI tool for scrapping and dumping Markup Content from Websites for intelligent analysis and processing.
- 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 by all employees for professional engagements.
- Chalked out Graph schema on Neo4j and configured deployment using GitHub Actions and Docker over 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 via Sklearn and NLTK to detect Fake News, through Ensemble Learning.
- Implemented Web Scrappers to scrap News Articles in real-time and worked on the development of the Web Interface.

## Achievements & Awards

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**Hackathons:** Capgemini Codealoro, MLH Fellowship Sprint 0 & 4 Winner, Hack4Good & Hack Infinity 2.0 Runner-Up

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

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

## Volunteering Experience

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**Developer Student Clubs – Sathyabama**

July 2021 – Present

*Community Lead*

*Sathyabama Institute of Science and Technology*

**Microsoft Learn**

January 2020 – Present

*Microsoft Learn Student Ambassador*

*Sathyabama Institute of Science and Technology*

## Education

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**Sathyabama Institute of Science and Technology**

August 2018 – July 2022

*Senior, Bachelor of Engineering in Computer Science and Engineering; CGPA: 8.79*

*Chennai, India*