

Hani Mohammed

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EDUCATION

New York University

Master of Science in Computer Science; GPA: 4.0

New York, NY

May 2024

Indian Institute of Information Technology, Sri City

Bachelor of Technology with Honors in Computer Science and Engineering

AP, India

May 2021

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, Go, SQL (PostgreSQL, MySQL), NetLogo

Frameworks: React Native, Next.js, Express, Django, Flask, Tailwind CSS, Hadoop, Spark

Other: React, Node.js, MongoDB, Git, GitHub Actions, Travis CI, AWS, Docker, Figma

EXPERIENCE

New York University

Software Engineer

New York, NY

Apr 2023 – Present

- Designed, architected, and implemented a search system using **Next.js** and **MySQL**, enabling users to discover research projects
- Addressed usability issues by remodeling **Apache** config to serve multiple applications on one instance using reverse proxy, eliminating port numbers from public URLs

Skillbee

Founding Engineer

New Delhi, India

Jul 2021 – Aug 2022

- Scaled up user base 10x YoY to 500k and raised **\$3.2M** in seed funding
- Led development across two verticals: **Front-end** and **DevOps**
- Conceptualized and set up infrastructure and CI/CD pipelines for modularized static web pages using **GitHub Actions**, **AWS Lambda**, **SQS**, **ECS**, and **S3**, allowing seamless content deployment at scale
- Increased organic traffic by 10x by creating performant, accessible pages with perfect Lighthouse scores
- Increased API performance by 30% by optimizing database queries with indexes
- Built internal tools to interact with data, resulting in 5x faster customer query resolutions by mitigating team dependencies within organization

Front-end Engineering Intern

Jan 2021 – Jun 2021

- Reduced initial app load time by 50% by code splitting to optimize bundle size
- Enhanced UX by improving rendering performance by virtualizing large lists and tables
- Developed an online walk-in interview solution for clients, leading to a 6x increase in monthly recruitment

Major League Hacking

Open-Source Fellow (1 in 450 out of 30k+)

Remote

Feb 2021 – Apr 2021

- Collaborated with a team of 5 to build **repo-report**, a CLI to list all repos a user has access to, and report configurations in aggregate
- Optimized a scalable aggregation algorithm to speed up reports for large collections of repos

PROJECTS

PR Title Checker | Project Owner (Open Source)

Aug 2020 – Present

- Created a GitHub Action to tag pull request titles that do not conform to contribution guidelines
- Published on GitHub Marketplace; used by teams at **Google**, **Microsoft**, **Amazon**, **gRPC**, **RocketChat**, **Pinterest**, **VMware**

Cooperative Autonomy | Undergraduate Researcher

Aug 2019 – May 2021

- Collaborated with **Prof. Subu Kandaswamy** to devise decentralized, cooperative driving strategies for fully autonomous vehicles to improve traffic conditions at freeway bottlenecks
- Published findings in 2020 IEEE 32nd International Conference on Tools with Artificial Intelligence (ICTAI)