

Moududur “Moody” Rahman

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Education

Hunter College - BA in Computer Science, Minor in Music, Daedalus Honors Cohort

Related Courses: Honors Data Structures & Algorithms (I, II, III), Web Development, Cloud Engineering, Operating Systems, Network Engineering, Unix System Engineering
Expected Graduation: May 2024

Stuyvesant High School - Stuyvesant Endorsed High School Diploma

Honors

Daedalus Scholar - The Daedalus Scholar Program provides academically talented students at Hunter college to draw on exceptional faculty and programs in Computer Science.

hackNY Fellow - hackNY is a ten-week program and fellowship where fellows are matched with startups, live in NYC together, and attend events and talks.

Skills

Languages: Python, Java, C++, JavaScript, TypeScript, Bash, Assembly (MIPS)

Web Frameworks: Flask, Django, Express, NodeJS

Databases: *SQL, MongoDB, GraphQL, InfluxDB

Frontend Development: Jquery, React, SvelteKit, HTML + CSS

Infrastructure: Heroku, Nginx, Debian Linux, GCP, Docker, Jenkins, Grafana, GitLab CI/CD

Experience

REGENT Craft, North Kingstown, Rhode Island

DevOps Engineering Intern

May 2023 - August 2023

- Created the blueprint for implementing Gitlab CI/CD pipelines by writing common Dockerfiles, pipeline configurations, and documentation to enable any software engineer to easily add CI to their projects.
- Implemented a Docker build dependency image for all flight software systems and a CI/CD pipeline to automate the build, test, and deploy of the build dependency image.
- Designed and implemented several quality of life bash scripts, used daily by the engineering department to facilitate collaboration.

Policygenius, NYC, New York

Software Engineering Intern

June 2022 - August 2022

- Debugged the testing pipeline to block Cypress tests until Gatsby Cloud finished spinning up a preview URL, and then proceeded Cypress tests with the Gatsby Cloud URL. Enabled the engineering team to dedicate more time writing E2E Cypress tests for all pages.
- Reimplemented the careers page to utilize Gatsby SSR to optimize core web vitals, specifically the CLS score.

Hunter College, NYC, New York

Software Engineering Intern

June 2021 - August 2021

- Analyzed and wrote documentation for an open-source Tensorflow DNA sequencing library. ([link](#))
- Designed and programmed a frontend for this library with ReactJS and the Bootstrap component library. ([link](#))

Projects

moodyrahman.com - Nginx, Docker, Jenkins, Grafana, Prometheus

<https://moodyrahman.com/>, <https://glances.moodyrahman.com/>, <https://grafana.moodyrahman.com>

- Hosted my personal website, several web applications, and microservices on a Digitalocean VPS.
- Obtained and set up a wildcard SSL certificate for the website through Let's Encrypt.
- Implemented an observability suite for server performance metrics, with Prometheus to aggregate data from cAdvisor and Node Exporter, and Grafana to generate visualizations of metrics.
- Achieved Lighthouse scores greater than 93 across Performance, Accessibility, Best Practices, and SEO.
- Implemented CI/CD pipelines for all my active microservices via webhooks, Jenkins, and Docker.