

Moududur “Moody” Rahman

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Experience

Hunter College, NYC

Bioinformatics Internship

July 2021 - September 2021

Analyze and write documentation for an open source Tensorflow DNA sequencing library

(<https://github.com/calico/basenji/pull/91>)

Design and program a frontend for a DNA sequencing library with ReactJS and the Bootstrap component library

(<https://github.com/moodyRahman/basenji-front>)

Projects

Chest - Bootstrap, JQuery, HTML, Flask, and MongoEngine

<https://chest.moodyrahman.com/help>, <https://github.com/moodyRahman/chest/>

An open source inventory manager for tabletop roleplaying games. Features user login and registration, multiple characters per user, item tagging, and dynamic inventory searching. Currently hosted at

<https://chest.moodyrahman.com> on a headless DigitalOcean Ubuntu server with Unicorn and Nginx.

CozyTurtles - React, Bootstrap, Splide

https://github.com/moodyRahman/turtle_nft

A website advertising a collection of programmatically, randomly generated cartoon turtle NFTs on the Solana Blockchain. Designed according to specifications set out by clients with many cycles of review and iteration done. Highlights future plans with the project.

OkuyasuEngine - Java

<https://github.com/moodyRahman/graphics-engine>

A graphics engine implemented in Java. Supports 2D graphics, bitmapping, shaded polygons, custom point lighting, and rendering of various 3D objects. Uses a custom scripting language to interface with the engine. All aspects of the engine, including lexical parsing, matrix algebra, and rendering, were written from scratch.

Extracurriculars

Google Developer Student Club, NYC

Secretary, Technology Lead

September 2020 - Present

Design and host workshops and live demos on computer science topics to present to the Hunter College community. Topics range from full-stack web development (ReactJS, backend APIs) to Linux system skills (server deploy, Bash shell scripts).

Skills

Fluent Languages: Python, Java, C++, JavaScript, NodeJS

Familiar Languages: Scheme, NetLogo

Web Frameworks: Flask, Django, Express

Databases: SQL, MongoDB

Frontend Development: JQuery, React, Bootstrap (React and HTML), HTML + CSS

Misc: Heroku, Nginx, WSGI, administering headless Linux servers, GCP, serverless APIs, shell scripting, DNS configuration

Education

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

Related Coursework: Honors Data Structures & Algorithms (I, II, III), Computer Architecture I

Expected Graduation: May 2024

Stuyvesant High School - Stuyvesant Endorsed High School Diploma

Related Coursework: APCS AB, Software Engineering, Computer Graphics, Intro to AI