MASUM AHMED

pm@masumahmed.net | masumahmed.net | github.com/masumahmed | linkedin.com/in/masum-ahmed

PROJECTS

mediavault.social
- Built and deployed a full-stack media recommendation platform with React, Express, and MongoDB, featuring user authentication and RESTful APIs.
- Integrated external APIs (OMDb, Spotify) to fetch real-time media metadata, enriching the user experience.
- Implemented user-generated content and custom tagging with full CRUD support and search functionality.
- Deployed to AWS using Docker containers and automated CI/CD pipelines with GitHub Actions.
- Designed a responsive UI with TailwindCSS, achieving accessibility and high Lighthouse scores.

File System, Computer Science Capstone, Grade: A+
- Implemented a mock file system using OS design principles in C++ and stored data using a simulated FAT32 volume.
- Provided a simple API for creating, reading, and deleting files.

EXPERIENCE

All Star Code, Teaching Assistant   JUN 2019 – AUG 2019
- Led engaging fullstack web development sessions covering JavaScript, Node.js, and databases, helping students connect concepts to real-world use cases.
- Provided tailored one-on-one support to explain software engineering practices, RESTful APIs, and database queries, ensuring deeper comprehension of frontend and backend logic.
- Helped students define and scope fullstack projects through technical planning, task breakdowns, and structured check-ins ensuring clear requirements, realistic timelines, and steady progress from idea to deployment.

Macquarie Group, Intern   JUL 2016 – AUG 2016
- Produced internal intern's promotional video by scripting, scheduling, recording, and editing with limited resources.
- Analyzed feedback from customer forms and suggested solutions to management to exceed customer satisfaction targets.

EDUCATION

Hunter College, City University of New York, Computer Science, BA   2023

ACTIVITIES

Co-Chair of Media Board   Aug 2020 – May 2022
President and Treasurer of HuntedHeroComics (Student Publication)   Aug 2020 – May 2022

CERTIFICATES

Meta Front-End Developer Professional Certificate   Jul 2025
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SKILLS

Computer Languages: HTML/JSX, CSS/SCSS, JavaScript/TypeScript, Python, SQL, C/C++, C#, and GDScript
Libraries & Frameworks: React, React Native, Express, jQuery, Tailwind, SciPy, SeaBorn, and Scikit-Learn
Technologies: Node, Linux, Bash, Docker, Git, MongoDB, Postman, JupyterLabs, PostgreSQL, and Godot
DevOps: CI/CD, Agile, Github actions, AWS, Azure, Heroku, integration testing, unit testing, OOP, and Trello
Communications: LaTeX, Markdown, Microsoft Excel, Photoshop, Illustrator, and InDesign