Amaan Ahmed

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EDUCATION

Macaulay Honors College at City University of New York   **Staten Island, NY**
Bachelor of Science in Computer Science   *Expected May 2026*
- *GPA: 3.6*

RELEVANT COURSEWORK

Discrete Mathematics, Data Structures and Algorithms, Computer Organization, Object Oriented Software Design

SKILLS

Languages: C++, C, HTML5, CSS, JavaScript, Python, Java
Libraries and Environments: React.js, Node.js
Frameworks: SpringBoot, NextJS
Technologies: Firebase, git, Github, Google Cloud, Google Lighthouse, Docker, PostgreSQL, Linux, XCode, OpenAI
Spoken Languages: English, Hindi, Urdu

RELEVANT EXPERIENCE

HeadStarter AI   **New York, NY**
Software Engineering Fellow   July 2024 - Present
- Building 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users.
- Developing projects from design to deployment leading 4+ engineering fellows using MVC design patterns.
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and micro-service patterns.

Whizara   **New York, NY**
Programming Instructor   February 2024 - Present
- Teach and execute a programming curriculum to elementary school students across four different schools in the New York City area.
- Work closely with each individual student to ensure they have a fruitful learning experience with Scratch.

MNC Development   **New York, NY**
Software Engineer Intern   February 2024 – April 2024
- Implemented Firebase and Node.js on the backend to manage tasks including video compression, resulting in storage savings of over 70% and significant cost reductions.
- Participated in Agile/Scrum development cycles, contributing to weekly sprints, and ensuring project tasks were effectively tracked and completed on time.
- Employed Google Lighthouse audits to analyze and optimize front-end performance, achieving high scores in key metrics such as performance, accessibility, SEO, and best practices.
- Documented technical specifications, and codebase architecture to facilitate knowledge sharing, onboarding of new team members, and future system maintenance.

Selective Corporate Internship Program   **New York, NY (Virtual)**
Back-End Developer Intern   September 2023 – December 2023
- Contributed to formulating and implementing a comprehensive backend plan, optimizing server-side functionality.
- Designed and implemented backend infrastructure using Docker containers for efficient resource management and scalability.
- Utilized GitHub for collaborative code version control and project management.

TECHNICAL PROJECTS

Mindful Moments   May 2024
- Designed and implemented a secure authentication system using **Java SpringBoot** to ensure user data privacy and security, enabling user registration, login, and session management.
- Developed key features such as a journal, mood tracker, meditation exercises, and user profiles using **React.js** for the front-end.
- Utilized **PostgreSQL** database for storing and managing user data, ensuring personalized user experience and data persistence.

JPMorgan Software Engineering Lite Job Simulation   May 2024
- Modified an existing system using Java, wrote unit tests to ensure code quality and reliability.