Muhammad Ahmed

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EDUCATION

City College Of New York   New York, NY
B.S in Computer Science   *Graduation Date, May 2026*

EXPERIENCE

Personaland | App Developer Intern   New York, NY */ June 2024 – Aug 2024*
- **Led the design and development of responsive and visually engaging front-end pages** for Personaland, ensuring a seamless user experience across iOS and Android using **React Native** and **Expo**.
- Implemented a robust backend with Supabase for efficient data management and real-time updates, alongside **Supabase authentication** for secure user access, enhancing overall app functionality and security.
- Developed interactive features that track user likes and artwork, fostering personalized engagement and community building, and **contributed to the successful launch of Personaland app**, helping establish a unique online arts village for artists and enthusiasts globally.

Department Of Design & Construction | QA intern   New York, NY */ July 2024 – August 2024*
- Played a critical role in debugging and testing the Civil Service Application Tracker (CSAT) using **Azure DevOps** by designing comprehensive **test plans, writing test cases, and unit tests** to identify and resolve issues, ensuring application accuracy and reliability.
- Actively communicated across departments, aligning efforts and verifying that all testing feedback and requirements were effectively shared, contributing to seamless collaboration.
- Collaborated closely with developers to **validate application functionality**, quickly addressing defects to uphold high standards, essential to the CSAT's purpose of accurately managing employee salaries and bonuses.

PROJECTS & EXTRA CURRICULAR

Pfizer Hackathon | Full Stack Software Engineer & Team Lead
- **1st Place Winner at Pfizer Digital Hackathon,** developed a maternal health monitor with 4 sensors to collect and track critical fetal and maternal health data.
- Developed a full-stack web application using **React, Material-UI, and Firebase**, featuring secure, real-time data storage and a responsive interface for patients and physicians. Leveraged **REST APIs to integrate a machine learning model**, enabling health data analysis and predictive insights for improved maternal health outcomes.

Rutgers Hackathon | Mental Health Track Honorable Mentions & Front-End Software Engineer
- Developed TheraCam, an in-home fitness tool, using **OpenPose, Next.js, MongoDB, and Firebase to deliver real-time form correction,** promoting exercise safety and accessibility for elderly users with responsive feedback and posture accuracy scoring.
- Enhanced user engagement and autonomy with visual guides and gamified progress tracking, supporting users in building safer, healthier habits through an interactive and motivating experience.

Fitness AI | Full Stack Software Engineer & Team Lead
- Created an **AI-driven chatbot using JavaScript and Python** to assess user weight loss goals, evaluate attainability, and deliver personalized feedback, enhancing user engagement and support.
- Built a calorie tracking system with food database integration, allowing users to log meals with dynamic serving sizes and receive personalized activity and food recommendations through algorithm-driven guidance

Auction Architect | Back-End Software Engineer & Team Lead
- Developed a web application using Next.js for bidding, buying, and selling cars online, **integrating Firebase Authentication and Firebase Database** to securely manage user data, car listings, and transactions, while implementing a responsive user interface.
- **Integrated Stripe API and SDK for a robust checkout system**, enabling secure payment processing and seamless user transactions, complemented by Firebase to store and track payment details and transaction histories.

Pokemon Game | Back-End Software Engineer & Team Lead
- Developed a Pokémon game in Java using object-oriented programming principles, implementing key skills in class design, inheritance, and polymorphism to create dynamic gameplay and interactive features.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, Node.js, React.js, React Native, Next.js, C++, C, R, Arduino
Tools: IntelliJ, VScode, Rstudio, Expo, Git, Github, AzureDevOps, Firebase, Supabase, Auth0