

Waffy Ahmed

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Education

Georgia Institute of Technology | Atlanta, GA
Bachelor of Science in Computer Science

December 2024
Faculty Honors, Zell Miller Scholar

Experience

Incoming Software Engineer
The Home Depot

January 2025
Atlanta, GA

Software Engineer Intern
The Home Depot

May 2023 – July 2023, May 2024 – July 2024
Atlanta, GA

- Developed an internal product information page for cashiers, streamlining self-checkout processes and reducing customer wait times for associate interventions by ~25%.
- Leveraged Java to obtain germane product data, used React and TypeScript to effectively display product information for all registers at self-checkout, pruning customer theft by ~\$10 million annually.
- Optimized the efficiency of configuring 40,000+ registers across 2,300 stores by 90%, in collaboration with 2 interns.
- Truncated the maximum deployment time of updates to registers from 24+ hours to 30 minutes, leveraging the HttpClient and Flow Java libraries to streamline the retrieval of polymorphic external configurations.
- Collaborated with cross-functional teams, including the UI/UX team, designing and constructing user interface components for a new configuration process - utilizing React, Next.js, and TypeScript.

Firmware Engineer Intern
Landis+Gyr

May 2022 – August 2022
Alpharetta, GA

- Accelerated the process of converting DCW (Data Control Words) hexadecimal values to their corresponding ASCII representations by ~50% through efficient Python practices.
- Bolstered data transmission efficiency by ~25%, collaborating with a software architect to conduct comprehensive testing of collectors and debugging of various Python scripts employing MySQL.

Frontend Engineer
Fintech at Georgia Tech

September 2024 – November 2024
Atlanta, GA

- Reduced page load times by ~35% via transforming a multi-page credit card website into a React-based single-page application, streamlining card wallet management and adding a card removal feature for authenticated users.
- Implemented a cart page for a React Native grocery application, allowing users to add/remove items, adjust quantities, view real-time total costs, and integrated the Stripe API for streamlined in-app credit card payments.
- Leveraged an inbuilt API for image recognition, identified and ranked the top 3 product matches for shopping carts.

Projects

CDC Data Reconciliation | *Python, FastAPI, SQLite, React, Tailwind CSS*

- Oversaw a team of 6 to automate the reconciliation of case counts for infectious diseases between 50 state health departments and the CDC, alongside doubling as a full-stack software developer.
- Utilized Python to compare state health department and CDC data, highlighting any discrepancies between the two datasets, saving 5000+ hours of manual reconciliation annually.
- Procured feedback from CDC computer scientists and representatives from 25+ state health departments via application demonstrations and integrated the suggested modifications.

Job Search Aid | *Kotlin, Google Firebase, Cloud Firestore, Adzuna API, XML*

- Engineered an Android application to aid job seekers by providing resources such as FAQs, resume templates, etc.
- Integrated the Adzuna API using Kotlin to fetch jobs based on user preferences of job title, location, and radius.

Campus Discovery Service | *MongoDB, Node.js, Java, XML*

- Developed an Android application for students to explore and register for on-campus events at Georgia Tech, offering access to event capacities, details, and waitlists, in collaboration with 5 classmates.

Skills

Languages: Java, C#, C++, C, Python, Kotlin, JavaScript, TypeScript, HTML, CSS, XML, GLSL, LaTeX
Technologies/Frameworks: SQLite, Google Firebase, React, React Native, Node.js, Next.js, Postman, Docker, Git
Concepts: Object-Oriented Programming & Design, Data Structures & Algorithms, Test-Driven Development, NoSQL, SQL, Game AI, Backend, Frontend, Agile, Scrum, Data Visualization/Analysis, Human-Computer Interaction, Computer Architectures & Graphics, Video Game Design, CI/CD, Applied Combinatorics, Web/Mobile Application Development