

# Waffy Ahmed

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## Education

**Georgia Institute of Technology** | Atlanta, GA

December 2024

Bachelor of Science in Computer Science

Faculty Honors, Dean's List, Zell Miller Scholar

## Experience

### Software Engineer

January 2025 – Present

*The Home Depot*

*Atlanta, GA*

- Led testing and validation efforts for enabling/disabling a legacy service using BigQuery and Postman, reducing CPU usage for booking transactions by ~15% and ensuring seamless functionality during its phased retirement.
- Delivered timely support for production and QA environments, resolving client issues related to transaction processing across 2,300+ stores leveraging Cassandra, Elastic Search, Java, BigQuery, and Postman.
- Streamlined production and QA deployments by ~10% via cleaning up and standardizing YML and properties files, enhancing maintainability and reducing technical debt.

### Software Engineer Intern

May 2023 – July 2023, May 2024 – July 2024

*The Home Depot*

*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

May 2022 – August 2022

*Landis+Gyr*

*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.

## 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, Cassandra, Elastic Search, BigQuery, 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