

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

- Automated Spinnaker deployment pipelines for 15+ microservices with cdk8s, utilizing TypeScript, Terraform, and Google Cloud Platform for production and non-production environments, reducing deployment times by 25%.
- Resolved critical transaction processing/lookup issues across 500+ stores, collaborating with cross-functional teams and leveraging Cassandra, Elasticsearch, Java, BigQuery and Postman to maintain ~100% service availability.
- Reduced production incidents by 20% via implementing OpenTelemetry tracing across 8 Java-based microservices, enabling early issue detection through standardized distributed tracing and centralized observability.
- Improved operational responsiveness by decreasing alert acknowledgement times 30% via optimizing tiered alerting and Grafana dashboards across 20+ microservices, automating escalation via Slack and PagerDuty integrations.
- Led testing and validation to disable a legacy service component handling ~27% of transaction volume (14.5 million daily captures/lookups) using BigQuery and Postman, supporting a phased retirement effort involving 12 teams.

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 ~\$750,000 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.

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

Fintech @ Georgia Tech | React, React Native, TypeScript, Stripe API, Chakra UI

- 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.

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.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, HTML, CSS

Technologies/Frameworks: SQLite, Cassandra, Elasticsearch, BigQuery, Google Firebase, React, React Native, Node.js, Next.js, Express.js, Postman, Docker, Git, JUnit, Jest, Kubernetes, GCP, Terraform, Prometheus, PromQL

Concepts: Object-Oriented Programming & Design, Data Structures & Algorithms, Test-Driven Development, NoSQL, SQL, Game AI, Agile, Scrum, Data Visualization/Analysis, Human-Computer Interaction, Computer Architectures

Interests: Backend, Frontend, Full-Stack, CI/CD, Web/Mobile Application Development, Distributed Systems, Cloud Computing, Automation, Monitoring & Observability, Microservices Architecture, Data Engineering, Linux