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*

- Improved scalability by deploying and validating HPA for a core service previously capped at 20 static pods, cutting mean latency 40% (121 to 72 ms) and errors 89% while boosting throughput 40% (24.9M to 34.8M reqs/wk) and reducing average CPU usage 26%, enabling dynamic scaling between 50–100 pods in production.
- 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.
- Reduced MTTR ∼50% by implementing an automated rolling-restart Kubernetes job for 20+ microservices, eliminating slow Argo Rollouts sequences and accelerating recovery from memory-leak and state-drift issues.
- Automated Spinnaker deployment pipelines for 15+ microservices with cdk8s, standardizing multi-environment release workflows using TypeScript, Terraform, and GCP, reducing deployment times by 25%.
- Ensured data integrity for a legacy POS retirement initiative by implementing and validating bidirectional Java transformations between XML and JSON, enforcing round-trip schema equivalence across 1000+ production fields.

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 retrieve authoritative 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*

- Led 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, SQL
Technologies/Frameworks: Kubernetes, GCP, Terraform, Cassandra, Elasticsearch, BigQuery, Google Firebase, Git, React, React Native, Node.js, Next.js, Express.js, SQLite, Postman, Docker, JUnit, Jest, Prometheus, PromQL
Concepts: Object-Oriented Programming & Design, Test-Driven Development, NoSQL, Data Structures & Algorithms
Interests: Full-Stack, CI/CD, Infrastructure, Distributed Systems, Cloud Computing, Microservices Architecture