Zohaib Ahmed

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Purpose

As a part-time master's student with experience in both startup and corporate environments, I am committed to pursuing a career in working with data and developing innovative software solutions. My goal is to continuously expand my skillset and contribute to impactful projects as a dedicated junior analyst or engineer.

Technical Skills

Languages: Python, Java, SQL, JavaScript/TypeScript, HTML/CSS, R
Frameworks: Spring, React, Node.js, Next.Js, Angular, JUnit, Flask
Developer Tools / Infra: Git, Agile, AWS, Docker, BitBucket, SonarQube, Github Actions
Certifications: CompTIA Security+

Education

University of Texas at Austin — May 2024 – Dec 2025
Master of Science in Computer Science | GPA: 4.0 — *Austin, TX*

Saint Louis University — Aug 2020 – May 2024
Bachelor of Science in Computer Science | GPA: 3.8 — *St. Louis, MO*

Experience

Enterprise — May 2023 – Aug 2023
Java Engineer Intern — *St. Louis, MO*

- Pair-programmed with experienced engineers to drive the development of a Java Spring application to implement new features on AWS and complete Jira tickets.
- Increased back-end test coverage by 12%, measured by SonarQube, by implementing and deploying unit testing for various services using JUnit and Mockito.
- Improved system efficiency by refactoring key services and reducing computational complexity.

Saint Louis University — Jan 2023 – May 2024
Teaching Assistant — *St. Louis, MO*

- Assisted in teaching and reviewing object-oriented principles and software design with classes of 50+ students.
- Designed and developed JUnit and pytest based auto-scoring scripts, reducing time to grade by approx. 70%.
- Set up automated grading processes using GitHub Actions workflows for student repositories to streamline submission evaluations.

Projects

Online Board Game | *Typescript, Java*

- Developed an online variation of Carbles, providing user authentication, profile statistics, and live gameplay using NextJS and Spring.
- Set up REST APIs and Websocket communication to seamlessly communicate with Redis for in-game caching.
- Implemented JWT-based authentication using Spring Security and dynamic page routing with NextJS.

LLM Calendar Manager | *Typescript, Python*

- Developed a full-stack calendar management system for students incorporating LLM-assisted commands.
- Designed a NextJS frontend allowing users to intuitively create, update, and delete events and assignments.
- Set up a RESTful API using Flask to manage user calendars and integrated Google Gemini to interpret human-text commands.

CLI Google Drive Integration | *Golang, Cobra*

- Developed a command-line interface allowing users to authenticate, upload, and download files via a local terminal with Google Drive.
- Implemented secure OAuth authentication and leveraged the Drive API to perform nested commands to seamlessly mesh local and Drive file systems.