Keezhan Hamasoor

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Education

University of Minnesota, College of Science and Engineering — Minneapolis, MN
Bachelor of Science, Computer Science — Expected May 2026
Dean's List: Spring 2024, Fall 2024, Spring 2025 — GPA: 3.5

Work Experience

Thomson Reuters — April 2024-Present
Software Engineering Intern

- Develop and implement new features for Thomson Reuters' Westlaw platform used by thousands of legal professionals globally and generating $7.2B in 2024 revenue.
- Collaborate with a team of 5 developers, 3 QA analysts, a software lead, and a product manager to utilize agile development methodologies and complete projects according to user requirements.
- Utilize Axe to diagnose accessibility issues and implement bug fixes across HTML, CSS, and JavaScript.
- Leverage Java, Selenium, and TestNG to manage and enhance a suite of over 1600 regression tests, focusing on sign-in security, search results, report processing, fixing/investigating automation bugs, and creating new automated tests.
- Ranked as #1 git contributor with the most commits and code changes in the testing repository.
- Use Datadog to verify accuracy of real-time monitoring logs, redaction of proper information, and creation of logs when Westlaw users trigger monitoring events.
- Refactored testing codebase to implement the datadog API client library, optimized memory usage through JSON-to-HashMap conversion, enhanced test efficiency with a polling method resulting in a 30% decrease in time taken for daily regression runs, and ensured FedRamp compliance.
- Assisted in transitioning testing code base build tool from Apache Ant and Ivy to Gradle 8.1.0 which resulted in a 25% decrease in time taken for daily regression runs.

University of Minnesota–Housing and Residential Life — August 2023-May 2025
Residential Advisor

Projects / Experience

Electoral System — May 2025

- Collaborated in a team to develop an electoral system for election officials to use in Java, initially following Waterfall methodology (including SRS, SDD, and UML documentation), and later transitioning to Agile practices to enhance flexibility and accelerate development.

Mobile Robot Path Planning — December 2024

- Developed a Java-based mobile robot simulation to evaluate obstacle avoidance strategies. Implemented and tested path planning algorithms (A*, Dijkstra's, Manhattan, straight-line) and analyzed data structures (priority queue, stack) for performance.
- Wrote a literature review of the effectiveness of path-planning in artificial intelligence.

Drone Delivery Simulation — November 2024

- Developed a drone delivery simulation in C++ with a team of four, utilizing JIRA and Agile methodologies.
- Improved delivery efficiency by implementing A* and Beeline navigation, and integrated a dynamic weather system influencing real-time route adjustments and package handling.

Context Committee Lead and EWB Admin Member — September 2022-June 2024
Engineering Without Borders (EWB)

- Led weekly meetings with over 15 members and created 7 presentations for EWB members about the context and meaning behind EWB, and discussed ethical, social, and the non-technical aspects of STEM.
- Published a blog discussing ethical matters in engineering (https://ewb.umn.edu/media/document/CC-Blogs).

Skills

- HTML, CSS, C++, C, Java, Javascript, Typescript, Python, DataDog, Axe, Snyk, Git, Docker, Azure DevOps, Machine Learning, Agile, Waterfall, Object Oriented Programming