

Nina Mason

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SUMMARY

Software engineering senior with experience in Java, Python, and full-stack development through sponsored capstone and personal projects. Seeking a Spring 2026 internship or full-time role upon Summer 2026 graduation.

EDUCATION

B.S.E., Software Engineering Arizona State University, Tempe, AZ	May 2026 3.85 GPA
Relevant Coursework: Data Structures & Algorithms, Secure Software Systems, Web-Based Applications,, Operating Systems	

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C, C++, C#, HTML/CSS

Frameworks & Libraries: JavaFX (MVC), Java Swing, Tkinter, Streamlit

Databases: MongoDB Atlas, MySQL, JSON-based data persistence

Tools & Build Systems: Git/GitHub, Gradle, YAML prompt configuration, Figma, Astah, Lucidchart, Taiga

Back-End & APIs: REST APIs, LLM prompt engineering, multi-step reasoning pipelines

Operating Systems: Windows, macOS, Linux

Additional: Arduino (sensor integration), MIPS Assembly, video editing for demos

PROFESSIONAL EXPERIENCE

Self-Learning AI Tutor—Capstone Project (Sponsored by MyEdMaster LLC)	Sep 2025 – Present
<ul style="list-style-type: none">Designed the adaptivity algorithm from scratch to replace a static quiz flow, dynamically selecting questions based on student performance and learning needs using Python, Streamlit, and MongoDB.Solved the challenge of accurately modeling learning progress by implementing weighted accuracy scoring and confidence-based inputs, allowing the system to adapt over time instead of permanently labeling students as “weak.”Reworked LLM analysis logic to recognize partially correct solutions, improving feedback clarity while reducing the risk of incorrect academic guidance.Collaborated closely within a five-person agile team, leading database migration and cleanup by designing filtered MongoDB APIs and migration scripts to improve system reliability, scalability, and maintainability.	

PROJECTS

GPS Distance App, Personal Project	Sep 2025 - Dec 2025
<ul style="list-style-type: none">Tackled the challenge of combining geospatial data with desktop UI by building CLI and JavaFX GUI applications for distance and travel-time calculation using the haversine formula.Independently learned and integrated a Mapbox mapping API, embedding dynamic HTML maps into JavaFX to visualize routes in a user-friendly interface.Applied lessons from a prior bus scheduling project to design intuitive route creation, editing, and selection workflows; automated builds and packaging using Gradle.	

Memoranda Software to Bus Scheduler Transformation, Class Project	Jan 2025 - Mar 2025
<ul style="list-style-type: none">Extended a legacy Java codebase within a Scrum team to support new bus routing functionality, adapting existing architecture to meet evolving client needs.Implemented backend routing logic and contributed to a GPS-based mapping UI, refactoring fragile components to improve system stability and usability.	

Image Filter Processor, Class Project	Oct 2025 - Dec 2025
<ul style="list-style-type: none">Implemented a pixel-by-pixel BMP image processing pipeline in C, requiring careful memory management and low-level data handling.Parallelized image filtering using pthreads, optimizing thread coordination and reconstruction logic to improve performance without corrupting image output.	

WORK EXPERIENCE

Starbucks, Loveland, CO: Barista	May 2018 – Present
<ul style="list-style-type: none">Balanced 25–30 hours/week in a high-volume retail environment while mentoring 10+ new hires, leading peak shifts, and earning <i>Partner of the Quarter</i> recognition.	