

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, Software Engineering Capstone, Machine Learning Foundations, Database Systems, 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 – May 2026
<ul style="list-style-type: none">Designed and implemented the core adaptivity algorithm, dynamically selecting questions based on each student's weakest skills instead of a static sequence, enabling personalized learning paths.Extended adaptivity with weighted accuracy scoring and confidence-based inputs, prioritizing recent performance and student self-reported confidence to better reflect real learning progress.Implemented logic to detect partially correct problem-solving steps, restructuring analysis prompts to produce clearer, more supportive AI feedback while reducing misinformation risk.Led database migration and cleanup efforts by building filtered MongoDB question-fetch APIs, removing deprecated multiple-choice data, and writing one-time migration scripts—reducing database bloat and improving system reliability and scalability.	

PROJECTS

GPS Distance App, Personal Project	Fall 2025
<ul style="list-style-type: none">Developed CLI and JavaFX GUI applications to calculate haversine distance, travel time, and manage route data with JSON persistence.Built interactive UI features including route creation, editing, selection, and dropdown-based navigation.Integrated a mapping API to visualize routes by embedding dynamic HTML maps within JavaFX components; automated builds using Gradle.	

Memoranda Software to Bus Scheduler Transformation, Class Project	Spring 2025
<ul style="list-style-type: none">Applied Scrum methodology in a five-person team to refactor and extend a legacy Java codebase.Implemented backend bus routing functionality and contributed to a GPS-based mapping UI.Refactored core components to meet evolving client requirements while maintaining stability and usability.	

Image Filter Processor, Class Project	Fall 2024
<ul style="list-style-type: none">Built a BMP image processing tool in C, applying filters with efficient memory management.Parallelized image processing using pthreads, improving performance and demonstrating low-level concurrency skill.	

WORK EXPERIENCE

Starbucks, Loveland, CO: Barista	May 2018 – Present
<ul style="list-style-type: none">Trained and mentored over 10 new team members, ensuring high onboarding and service standards.Managed high-volume shifts during peak hours, enhancing multitasking and problem-solving skills.Recognized as Partner of the Quarter for leadership, consistent high performance, and teamwork.Completed the elite Coffee Master Program to enhance coffee knowledge and expertise.	