

Matin Gathani

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SUMMARY

AI/ML-focused Project Intern and Engineering Tutor with a strong foundation in computer science and a minor in data science. Possesses early-career professional experience developing machine learning models for HRMS using Python, NLP, and tokenization, as well as integrating APIs and improving data processing workflows.

EDUCATION

Arizona State University, Tempe, AZ
B.S. in Computer Science

Aug 2022 – May 2026
GPA – 3.74

TECHNICAL SKILLS

- **Programming, AI & Data:** Python, Java, C++, Object-Oriented Programming (OOP), Data Structures & Algorithms, Pandas, NumPy, Machine Learning Model Training & Evaluation, Feature Engineering, Natural Language Processing (NLP), SQL, Database Design, Query Optimization, Data Cleaning & Transformation.
- **Backend, APIs & Testing:** RESTful APIs, API Integration & Response Validation, Postman, Unit Testing, Integration Testing, Debugging, Performance Optimization, Exception Handling .
- **Microsoft & Business Tools:** Microsoft Power BI, Power Automate, Excel (Data Analysis), PowerPoint, Workflow.
- **Frontend & Full Stack:** HTML5, CSS3, JavaScript, React.js, Responsive Web Design, Frontend–Backend Integration ,Git, Github Docker, Containerization, CI/CD, Linux Kernel, Shell Scripting .
- **Software Engineering Practices:** UX Design, UI Design, Code refactoring, Code Reviews, Technical Documentation , Authentication & Authorization Basics, Secure API Practices, Input Validation.

PROFESSIONAL EXPERIENCE

Engineering Tutor Arizona State University | Tempe,AZ

Aug 2024 – Present

- Mentored **180+ CS students** in Java, C++, and Assembly through **300+ tutoring sessions**, diagnosing **1,000+ code defects** related to logic errors, memory misuse, and algorithm inefficiencies.
- Improved student outcomes by reinforcing **data structures, algorithms, and time-space complexity analysis**, leading to measurable gains in project quality and exam performance (**25% improvement**).
- Implemented **JUnit-based unit testing workflows** and debugging best practices, increasing test coverage by **20%** and reducing runtime failures across GitHub-hosted student projects.

Data Intern, Musikaar | Ahmedabad , India

May 2024 – Aug 2024

- **Engineered and optimized** Python-based machine learning and NLP pipelines to automate HR data workflows, reducing manual processing effort by **40%** across **10,000+ records**.
- **Architected preprocessing and tokenization workflows** that improved model accuracy and stability by **20%**, ensuring reliable performance on structured and unstructured HR datasets.
- Delivered **3+ production-ready AI integrations** by building **responsive HTML/CSS interfaces** and authoring **15+ pages of technical and testing documentation**, reducing onboarding time and improving frontend–backend integration reliability

Capstone Sponsor integration Arizona State University | Tempe,AZ

Jan 2025 – Dec 2025

- Established collaborative engineering workflows using **Git and GitHub**, managing **150+ commits**, conducting **20+ code reviews**, and maintaining shared technical documentation across a **4–6-member Agile team**
- Delivered an **industry-sponsored web platform** as part of a **multi-member Agile team**, implementing **10+ frontend and backend features** and integrating **RESTful APIs** to support real-time data exchange
- Executed **Agile development workflows** including sprint planning and task estimation across **6 sprints**, contributing to **100% on-time milestone delivery**

PROJECTS

REST API-Based Data Integration System

Jan 2025 – May 2025

- Developed and validated **5 RESTful API endpoints** for data ingestion and retrieval using **Postman and JSON**, supporting reliable service-to-service communication
- Strengthened API robustness by adding structured error handling, response validation, and status code management.

Medical Record Management System ,

August 2023 – December 2023

- Built a containerized full-stack web platform using JavaScript, SQL, and Docker to manage and visualize 1,000+ simulated patient records with role-based data access
- Optimized **relational database schemas and complex SQL queries**, reducing query latency and improving reporting performance .