Ronit Khanna

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Education

Arizona State University — Tempe, Arizona
Bachelor of Science in Computer Science — *Aug 2022 – May 2026*
- GPA: 3.9/4.0

Experience

Java Developer Intern — Jun 2025 – Aug 2025
Indiabulls Securities — *Gurugram, India*
- Engineered CRUD-based microservices using Spring Boot + MySQL, streamlining internal workflows and improving backend reliability by ∼20%.
- Contributed to the Dhani Stocks web platform by refactoring APIs and debugging production-level issues, reducing API response time by ∼15%.
- Collaborated in Agile sprints using Git-based CI/CD pipelines for version control and deployment testing, accelerating release cycles by ∼15%.

Graduate Service Assistant – CSE310 (Data Structures) — Aug 2024 – Dec 2024
Arizona State University — *Tempe, Arizona*
- Mentored 100+ students in Java algorithm design and complexity optimization, improving average assignment scores by ∼15%.
- Assisted faculty in creating quizzes and evaluating projects ensuring academic integrity and fair grading, reducing grading turnaround time by ∼25–30%.

Cybersecurity Analyst Intern — Jul 2023 – Aug 2023
GMR Group — *New Delhi, India*
- Performed vulnerability assessments and network audits to improve distributed system security, contributing to remediation efforts for several high-severity vulnerabilities.
- Drafted incident-response reports and suggested firewall and endpoint policy optimizations, reducing potential attack surface by ∼15–20%.

Java Software Developer Intern — Jun 2023 – Jul 2023
Samsung Data Systems — *New Delhi, India*
- Designed and tested RESTful APIs for enterprise Java applications handling large-scale data transactions, improving throughput by ∼20–25%.
- Collaborated on backend module development using RESTful APIs and MVC design patterns, reducing code complexity by ∼20%.

Technical Projects

HomeaZZon – AI-Powered Property Management System | *C#, .NET 8, Azure AI, Azure SQL*
- Designed and implemented an AI-driven backend system using .NET 8 to integrate Azure Form Recognizer and Vision services, reducing manual document handling effort by ∼20–30% through automated extraction of structured property data.
- Built a Predictive Maintenance engine computing appliance risk scores and maintenance recommendations using usage patterns, asset age, and manufacturer schedules, enabling ∼15–20% earlier identification of high-risk assets compared to reactive maintenance workflows.
- Developed an explainable statistical insights pipeline producing deterministic, rule-based maintenance signals (usage anomalies, maintenance gaps, environmental risk, manufacturer deviation), significantly improving decision transparency and auditability through explainable outputs.
- Architected scalable, model-agnostic APIs with clean architecture and dependency injection, simplifying future AI/ML integration by decoupling business logic from model execution.

AI Study Assistant – Personalized Learning Platform | *Python, FastAPI, MongoDB, OpenAI API, React*
- Developed an LLM-powered study assistant that generates quizzes and contextual summaries for topic-based learning.
- Implemented a modular FastAPI backend with AI routes and MongoDB context storage for personalized responses.
- Created AI-client utilities for dynamic prompt construction and real-time query caching to optimize response latency.
- Integrated a React frontend for interactive chat-style learning with session tracking.

Skills

Languages: Java, C#, Python, SQL
Backend: .NET 8, Spring Boot, FastAPI, REST APIs
Databases: SQL Server, MongoDB, PostgreSQL
Cloud & Tools: Azure AI Vision, Azure Form Recognizer, Docker, Git, CI/CD Pipelines
AI Integration: GPT-4 (OpenAI API), LangChain, Google Gemini API, Pinecone

Achievements

New American University Scholarship Recipient | Dean's List (4 Consecutive Semesters)