

# RONIT KHANNA

+1-480-760-3152 | ronitkhanna2004@gmail.com | linkedin.com/in/ronitkhanna | github.com/Ronn0905

## Education

### Arizona State University

Bachelor of Science in Computer Science – **GPA: 3.9/4.0**

Tempe, Arizona

Aug 2022 – May 2026

## Experience

### Java Developer Intern

Indiabulls Securities

Jun 2025 – Aug 2025

Gurugram, India

- Developed Spring Boot microservices handling 5K+ daily transactions with connection pooling and caching, reducing processing time by ~30%
- Refactored REST APIs optimizing database queries and indexing to reduce response time from 500ms to 375ms
- Implemented CI/CD pipelines with automated testing in Agile sprints, reducing deployment time by ~20%

### Graduate Service Assistant – CSE310 (Data Structures)

Arizona State University

Aug 2024 – Dec 2024

Tempe, Arizona

- Mentored 100+ students in Java algorithm design and complexity analysis, improving average scores by 15%
- Created quizzes and evaluated projects, reducing grading turnaround time by 25-30%

### Cybersecurity Analyst Intern

GMR Group

Jul 2023 – Aug 2023

New Delhi, India

- Performed vulnerability assessments using CVSS analysis, identifying 10+ high-severity vulnerabilities in distributed systems
- Drafted incident response reports and contributed to firewall and endpoint security policy optimization

### Java Software Developer Intern

Samsung Data Systems

Jun 2023 – Jul 2023

New Delhi, India

- Designed REST APIs for enterprise applications handling large-scale transactions using MVC architecture, improving module throughput by ~20%
- Implemented design patterns and refactored backend code to improve maintainability and reduce complexity

## Technical Projects

### Distributed URL Shortener ([GitHub](#)) | Java, Spring Boot, Redis, PostgreSQL, Docker

- Designed scalable URL shortening service handling 100K+ URLs with sub-50ms latency and 95% cache hit rate
- Implemented Redis caching and Base62 encoding algorithm supporting 3.5 trillion unique short codes
- Built token bucket rate limiting preventing API abuse while maintaining <5ms overhead
- Containerized with Docker and load tested at 1000+ requests/minute with consistent performance

### HomeaZZon – AI-Powered Property Management ([GitHub](#)) | C#, .NET 8, Azure AI, Azure SQL

- Led backend architecture for document processing and predictive maintenance with modular service design
- Built automated document processing pipeline using Azure Form Recognizer and Vision AI for structured data extraction
- Implemented multi-tier caching strategy (Cache → AI → External API → Static fallback) for vendor suggestions, optimizing AI costs while ensuring sub-200ms response times
- Designed explainable insights system with transparent maintenance recommendations and risk scoring

### AI Study Assistant – Personalized Learning Platform ([GitHub](#)) | Python, FastAPI, MongoDB, OpenAI API, React

- Built LLM-powered study assistant generating quizzes, summaries, and explanations with deterministic prompt constraints
- Developed FastAPI backend with MongoDB for context storage, reducing LLM response latency by 40%
- Implemented prompt versioning and output constraints ensuring consistent, deterministic responses

## Technical Skills

**Languages:** Java, C#, Python, SQL, JavaScript

**Backend & APIs:** Spring Boot, .NET 8, FastAPI, RESTful APIs, Microservices Architecture

**Databases:** PostgreSQL, MySQL, MongoDB, Azure SQL Server

**Cloud & DevOps:** Microsoft Azure, Docker, Git, CI/CD Pipelines

**AI Integration:** Azure AI Vision, Azure Form Recognizer, OpenAI API, LLM prompt engineering

**Frontend:** React, Node.js, Express, Angular

## Achievements

New American University Scholarship Recipient – Merit-based scholarship

Dean's List – 7 semesters