

# Hritish Mahajan | Software Engineer

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## EDUCATION

### Rochester Institute of Technology

Aug 2021 - May 2025

Bachelor of Science in Computing & Information Technologies

Rochester, NY

- **GPA:** 3.80/4.00, Summa Cum Laude
- **Clubs:** Tech Director - RIT Student Government | Tech Lead - GDG @ RIT | Vice President - RIT Chess Club

## EXPERIENCE

### Machine Learning Engineer

Jun 2025 - Present

Circum Medtech

Remote

- Architecting the software stack for **Predisens**, an ML powered real-time sepsis detection device for ICUs.
- Engineered a real-time inference pipeline using **FastAPI** and **PyTorch**, processing 300Hz biosensor streams (ECG, SpO2, etc.) with <200ms latency.
- Trained and validated early-sepsis detection models on **200k+ patient records** (MIMIC-IV, eICU), achieving strong performance (AUROC 0.89) on Sepsis-3 labels.
- Building clinician-facing **React Native** mobile application for real-time patient monitoring & alerts, adhering to HIPAA & ISO-13485 device compliance standards while storing data using **PostgreSQL**.

### Software Engineer Intern

Jun 2024 - Aug 2024

Global Payments

Atlanta, GA

- Built new features to automate utility charge calculations across **10K+** rental units on Zego's property management software, using **.NET, PHP & SQL Server**.
- Helped refactor billing and utility management workflows, used CI/CD tools (Jenkins) to deploy changes.
- Led a team of 3 interns in building a mobile app to drive community engagement among Gen Z residents.

### Software Engineer Intern

May 2023 - Aug 2023

Unity Infotech

Dubai, UAE

- Built mobile banking app features using Flutter, .NET Core & SQL Server for a major private bank in Dubai.
- Integrated Google Cloud APIs to implement geotagging and live delivery routing in a local grocery app.
- Helped port mobile app to Flutter Web and refactored client & UI logic, reducing app load time by ~40%.

## PROJECTS

### Medical RCM Copilot | [GitHub](https://github.com) | [Live Website](#)

Nov 2025

React, FastAPI, Gemini API, Python, SQLite

- Built an autonomous agent for Revenue Cycle Management that parses insurance claim denials and generates actionable resolution steps for medical billers.
- Engineered an 'Autonomous Mode' that batch-processes denial queues using LLMs to identify root causes (coding errors, prior auth) with 95% classification success.

### Clanker FM | [GitHub](https://github.com) | [Live Website](#)

Aug 2025

Next.js, React, OpenAI API, Spotify API, Tailwind CSS, Typescript, Supabase, PostgreSQL

- Designed and shipped an AI-powered bot & platform that interactively roasts your Spotify listening habits.
- Engineered "Neighbours" social discovery using weighted Jaccard similarity + Supabase/PostgreSQL to connect users with similar tastes, deployed on Vercel with edge-cached APIs (<100 ms).
- Optimized OpenAI prompt chains to cut token usage & cost per roast by ~40% while preserving context & tone.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, C#, Dart, Java, HTML, CSS, SQL, Bash

**Frameworks:** Next.js, .NET, React, Flutter, Angular, Svelte, Node.js, Spring Boot, Flask, FastAPI, React Native

**Machine Learning:** PyTorch, Scikit Learn, Tensorflow, NLTK, NumPy, Pandas

**Databases:** MySQL, PostgreSQL, Chroma, Oracle, MongoDB, SQL Server

**Other:** Git, REST, GraphQL, Langchain, RAG, AWS, Google Cloud, Figma, Docker, Kubernetes, Firebase, Supabase