

# Hritish Mahajan | Software Engineer

📞 +1 (585) 360-6184 | 🌐 [github.com/hritsh](https://github.com/hritsh) | 📩 [hritish.mahajan@gmail.com](mailto:hritish.mahajan@gmail.com) | 💬 [in/hritishm](https://in/hritishm) | 🌐 [hritish.com](http://hritish.com) | US Citizen

## EDUCATION

<b>Rochester Institute of Technology</b> <i>Bachelor of Science in Computing &amp; Information Technologies</i>	<b>Aug 2021 - May 2025</b> <i>Rochester, NY</i>
<ul style="list-style-type: none"><li>• <b>GPA:</b> 3.80/4.00, Summa Cum Laude</li><li>• <b>Clubs:</b> Tech Director - RIT Student Government   Tech Lead - GDG @ RIT   Vice President - RIT Chess Club</li></ul>	

## EXPERIENCE

<b>Machine Learning Engineer</b> <i>Circum Medtech</i>	<b>Jun 2025 - Present</b> <i>Remote</i>
<ul style="list-style-type: none"><li>• Architecting the software stack for <b>Predisens</b>, an ML powered real-time sepsis detection device for ICUs.</li><li>• Engineered a real-time inference pipeline using <b>FastAPI</b> and <b>PyTorch</b>, processing 300Hz biosensor streams (ECG, SpO<sub>2</sub>, etc.) with &lt;200ms latency.</li><li>• Trained and validated early-sepsis detection models on <b>200k+ patient records</b> (MIMIC-IV, eICU), achieving strong performance (AUROC 0.89) on Sepsis-3 labels.</li><li>• Building clinician-facing <b>React Native</b> mobile application for real-time patient monitoring &amp; alerts, adhering to HIPAA &amp; ISO-13485 device compliance standards while storing data using <b>PostgreSQL</b>.</li></ul>	
<b>Software Engineer Intern</b> <i>Global Payments</i>	<b>Jun 2024 - Aug 2024</b> <i>Atlanta, GA</i>
<ul style="list-style-type: none"><li>• Built new features to automate utility charge calculations across <b>10K+</b> rental units on Zego's property management software, using <b>.NET, PHP &amp; SQL Server</b>.</li><li>• Helped refactor billing and utility management workflows, used CI/CD tools (Jenkins) to deploy changes.</li><li>• Led a team of 3 interns in building a mobile app to drive community engagement among Gen Z residents.</li></ul>	
<b>Software Engineer Intern</b> <i>Unity Infotech</i>	<b>May 2023 - Aug 2023</b> <i>Dubai, UAE</i>
<ul style="list-style-type: none"><li>• Built mobile banking app features using Flutter, .NET Core &amp; SQL Server for a major private bank in Dubai.</li><li>• Integrated Google Cloud APIs to implement geotagging and live delivery routing in a local grocery app.</li><li>• Helped port mobile app to Flutter Web and refactored client &amp; UI logic, reducing app load time by ~40%.</li></ul>	

## PROJECTS

<b>Medical RCM Copilot</b>   🌐 <a href="#">GitHub</a>   🌐 <a href="#">Live Website</a> <i>React, FastAPI, Gemini API, Python, SQLite</i>	<b>Nov 2025</b>
<ul style="list-style-type: none"><li>• Built an autonomous agent for Revenue Cycle Management that parses insurance claim denials and generates actionable resolution steps for medical billers.</li><li>• Engineered an 'Autonomous Mode' that batch-processes denial queues using LLMs to identify root causes (coding errors, prior auth) with 95% classification success.</li></ul>	
<b>Clanker FM</b>   🌐 <a href="#">GitHub</a>   🌐 <a href="#">Live Website</a> <i>Next.js, React, OpenAI API, Spotify API, Tailwind CSS, Typescript, Supabase, PostgreSQL</i>	<b>Aug 2025</b>
<ul style="list-style-type: none"><li>• Designed and shipped an AI-powered bot &amp; platform that interactively roasts your Spotify listening habits.</li><li>• Engineered "Neighbours" social discovery using weighted Jaccard similarity + Supabase/PostgreSQL to connect users with similar tastes, deployed on Vercel with edge-cached APIs (&lt;100 ms).</li><li>• Optimized OpenAI prompt chains to cut token usage &amp; cost per roast by ~40% while preserving context &amp; tone.</li></ul>	

## 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