

Hritish Mahajan | Software Engineer

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EDUCATION

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

EXPERIENCE

Machine Learning Engineer <i>Circum Medtech</i>	Jun 2025 - Present Nice, France (Remote)
<ul style="list-style-type: none">Leading development on Predisens, a patented smart catheter system that uses ML to detect sepsis early in ICUs.Achieved >90% sepsis prediction accuracy by deploying PyTorch models trained on 200,000+ patient ICU records.Engineering real-time data pipelines integrating microcontroller connected biosensors (SpO₂, ECG, WBC) with ML models, streaming 300+ data points/sec to ICU monitors with ~200 ms latency.Developing clinician-facing mobile app with React Native enabling patient vitals & alert monitoring in real-time.Collaborating with Medical Experts & Regulatory teams to ensure compliance with ISO 13485 & HIPAA standards.	
Software Engineer Intern <i>Global Payments</i>	Jun 2024 - Aug 2024 Atlanta, GA
<ul style="list-style-type: none">Built new features to automate utility charge calculations across 10K+ rental units on Zego's property management software, using .NET, PHP and 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 <i>Unity Infotech</i>	May 2023 - Aug 2023 Dubai, UAE
<ul style="list-style-type: none">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

Clunker FM GitHub Live Website	Aug 2025 - Present
<i>Next.js, React, OpenAI API, Spotify API, Tailwind CSS, Framer Motion, Typescript, Supabase, PostgreSQL</i>	
<ul style="list-style-type: none">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.Built a terminal-style UI with Framer Motion animations, local caching, and exportable roast cards for social media.	
Movie Rec Engine GitHub Live Website	Aug 2024 - Oct 2024
<i>Python, Streamlit, NLTK, Pandas, Scikit-learn, NumPy</i>	
<ul style="list-style-type: none">Built an interactive NLP-powered movie recommendation engine; find similar titles by genre, cast, plot, or keywords.Processed the top 5,000+ TMDB titles, normalised metadata & reviews, and applied cosine similarity over bag-of-words vectors for fast, explainable recommendations in <4 seconds.Deployed on Streamlit Cloud with responsive UI and instant search & browse features.	

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C#, Dart, Swift, Java, HTML, CSS, SQL, Bash
Frameworks: Next.js, .NET, React, Flutter, Angular, Svelte, Node.js, Spring Boot, Flask, Express.js, React Native
Machine Learning: PyTorch, Scikit Learn, Tensorflow, NLTK, NumPy, Matplotlib, Pandas, Jupyter Notebook
Databases: MySQL, PostgreSQL, Oracle, MongoDB, SQL Server
Other Tools: Git, REST, GraphQL, AWS, Google Cloud, Figma, Docker, Kubernetes, Firebase, Supabase, Vercel