

# Amar Mahato

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## Summary

Software Engineer Intern with a strong foundation in computer science, experienced in full-stack development using JavaScript, TypeScript, React.js, and Next.js. Demonstrated skills in building responsive user interfaces and developing scalable backend solutions with MongoDB and Node.js. Excited to join a dynamic fintech team, contribute to cross-functional projects, and deliver innovative, user-focused solutions.

## Projects

<b>Concize - Transcribe and Chat with your Meeting Content</b>   <a href="https://github.com/rx6ru/Concize">https://github.com/rx6ru/Concize</a>	Jul 2025
<ul style="list-style-type: none"><li>• A browser extension for real time transcription of meetings and QnA chat with the meeting content powered by AI.</li><li>• Job Queuing of Audio Chuck Processing Jobs using RabbitMQ</li><li>• Chunking Audio Transcriptions further based on micro Topics, and summarising.</li><li>• Using Efficient RAG pipeline to power the QnA chatbot</li><li>• Using GroqCloud's provided LLM for Speech-to-text and Logical chunking, and Gemini for embedding model and powering the chatbot</li><li>• Qdrant Cloud for Vector DB</li></ul>	
<b>Wombat Vault   Secure API storage and Custom Proxy API generation</b>   <a href="https://github.com/rx6ru/wombat">https://github.com/rx6ru/wombat</a>	Sep 2025
<ul style="list-style-type: none"><li>• Securely Store API keys</li><li>• Proxy API generation with custom usage limitations</li><li>• AWS KMS for Encryption Key and Data key management</li><li>• Handling Concurrent API calls</li><li>• Custom SDK support for APIs of LLM providers</li><li>• Elastic Search, Pagination and Secure API fetching logic</li><li>• Redis for Rate limiting and cashing frequent user profile and Data Key lookup</li></ul>	

<b>Vakalatnama Web - Home Platform for Pvt. Student Association</b>   <a href="https://vakalatnama-web.vercel.app/">https://vakalatnama-web.vercel.app/</a>	Feb 2025
<ul style="list-style-type: none"><li>• Smooth and Beautiful Landing Page</li><li>• Custom notice board for Petitioners</li></ul>	

## Skills

- **Frontend Technologies:** React.js, Next.js, Tailwind CSS
- **Backend Technologies:** Express.js, Node.js, Socket.io, JSON Web Token (JWT), Ffmpeg, Cloudinary, RabbitMQ, Redis, FastAPI
- **Programming Languages:** JavaScript, TypeScript, Python (Programming Language), Rust (Programming Language)
- **Databases:** MongoDB, SQL, Vector Databases, Qdrant - VectorDB, Pinecone - VectorDB
- **Cloud & DevOps:** AWS, CI/CD Pipelines, GroqCloud, MCP
- **Development Methodologies:** Full-stack Development, Prototyping Model

## Education

<b>Dr. B.C. Roy Engineering College</b> <i>Bachelor of Technology - BTech</i>	Aug 2023 - Jun 2027
<b>Beachwood School</b> <i>12th, Science</i>	Apr 2020 - Apr 2022