

# Vikrant Pradhan

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## SUMMARY

Backend-focused Full Stack Developer with 2+ years of experience and a Master's in Computer Science (ML specialization) from Georgia Tech. Skilled in Python, Node.js, and scalable system design. Currently deepening expertise in AI and LLMs to build production-ready, intelligent systems. Eager to contribute to teams developing practical, AI-driven applications.

## EDUCATION

<b>Georgia Institute of Technology</b> <i>Bachelor's of Science, Computer Science and Mathematics</i>	January 2022 — December 2024
<b>Aarupadai Veedu Institute of Technology</b> <i>Bachelor's of Science, Computer Science and Mathematics</i>	August 2015 — May 2019

## EXPERIENCE

<b>Software Engineer</b> Enerman Technologies Pvt Ltd	September 2019 — December 2021 <i>Bengaluru, KA, India</i>
<ul style="list-style-type: none"><li>Reduced database load by implementing an aggregate module that efficiently consolidated sensor data into periodic summaries.</li><li>Improved FTP data processing speed by replacing cron job checks with real-time file monitoring, resulting in quicker database updates after file uploads.</li><li>Improved query performance by integrating Redis Streams for caching, significantly alleviating pressure on the main SQL database.</li><li>Enhanced data integrity by designing and implementing a real-time sensor data filter service, effectively eliminating erroneous values before database storage.</li></ul>	

## PROJECTS

<b>AI Launcher</b> Cross-platform desktop app built with Electron for fast local AI and RAG-based queries.	<a href="https://github.com/vikrant0017/ai-launcher">github.com/vikrant0017/ai-launcher</a>
<b>Smart Bookmarks</b> A Chrome extension that helps you save and organize bookmarks with AI-powered summaries.	<a href="https://github.com/vikrant0017/smart-bookmark-ext">github.com/vikrant0017/smart-bookmark-ext</a>

**AI Launcher**  
Cross-platform desktop app built with Electron for fast local AI and RAG-based queries.

- Developed the frontend with Electron, React, and TypeScript, and the backend with FastAPI.
- Implemented a complete local RAG pipeline using Ollama for offline AI responses.
- Built a file sync service to automatically index and update documents in the retriever.
- Added a notes capture feature for quick Markdown-based note-taking.
- Designed keyboard-centric navigation with global and in-app shortcuts for seamless use.

**Smart Bookmarks**  
A Chrome extension that helps you save and organize bookmarks with AI-powered summaries.

- Built a Chrome extension using Vite, React, and TypeScript.
- Enabled quick bookmarking with AI-generated summaries and tags.
- Added bookmark management features — search, categorize, and filter.
- Supported user-provided API keys, including local Ollama integration for AI features.

## SKILLS

- Languages.:** Python, TypeScript, Javascript
- Frameworks.:** FastAPI, ReactJS, Langchain, ElectronJS
- Tools.:** Docker, Git, Github
- Databases.:** MySQL, MongoDB, Redis
- Concepts.:** REST APIs, Data Structures & Algorithms, Machine Learning