

# Akhilesh Chandewar *Software Engineer*

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📍 G.H Raisoni College of Engineering (2018-22) |  
Bachelors Degree (Information Technology) | CGPA: 8.19

🌐 github.com/Akhilesh-Chandewar

## PROFILE

I am a dedicated Software Engineer with a passion for contributing to team success through diligence, meticulousness, and strong organizational skills. Actively seeking roles as a Software Engineer. I am eager to tackle complex challenges, continuously learn, and apply my expertise in software development to drive innovative and impactful solutions.

## SKILLS

**Programming Languages and Databases:** JavaScript, TypeScript, Python, C++, GO, PostgreSQL, MongoDB

**Web Development Frameworks:** React.js, Redux, Node.js, Express, Next.js, Flask, FastAPI

**Tools and Cloud:** REST, AWS, Docker and Kubernetes, Git and GitHub, Apache Kafka, Linux

**Generative AI:** OpenAI, LangChain, Hugging Face API, LLM, Pinecone, ChromaDB, Meta Llama, Google Gemini.

## OPEN SOURCE CONTRIBUTIONS

### • Atri-Labs / atrilabs-engine ✎

Implemented features using Python backend Calculating traffic on particular GitHub and also reflecting on actions UI. Integrating GitHub with api and Integration GitHub Webhooks.

### • Codemate AI ExplainifyCLI ✎

The explainifycli shows promise as a tool for providing code explanations through natural language processing. Addressing the identified challenges and implementing suggested improvements would enhance its reliability and user-friendliness.

## RESEARCH PAPER IMPLEMENTATIONS

• **Image-Based Search Engine** | Paper link ✎ | GitHub ✎ : Developed an offline image search engine to retrieve top-n images based on similarity measures like Euclidean and Chi-square distances. Utilized models such as Color Moments and HOG for image representation, with a 90-10 corpus-test data split.

• **Transformer-Based Language Model Implementation** | Paper link ✎ | GitHub ✎ : Built a Transformer-based model using PyTorch for text generation, leveraging embeddings, self-attention, and multi-head attention to predict the next character in a sequence. Trained on Shakespeare's text, it uses cross-entropy loss and AdamW optimizer to learn patterns.

## PROFESSIONAL EXPERIENCES

### Mobantica Solutions, *Software Developer*

June 2024 – present | Pune, India

- Spearheaded the development and maintenance of full-stack applications using Node.js and React.js, delivering seamless functionality and integration with MongoDB databases.
- Enhanced system performance and scalability by optimizing backend architectures and implementing efficient database management practices.
- Championed the adoption of automated testing frameworks, ensuring consistent delivery of high-quality applications.
- Integrated cloud services, including AWS and GCP, to enable robust, scalable, and efficient deployments.

### UpAndOrigin, *Co-founder / Software Developer*

July 2023 – present | Remote

- ColomboAI: Designed and developed server-side applications using Node.js/Express and Python with MongoDB, boosting user engagement. Built dynamic UIs with React.js and Next.js. Integrated Large Language Models (LLMs) to enhance AI-driven features.
- ByteGenie: Developed an NLP application for document interaction, improving efficiency with Next.js, Pinecone, Hugging Face, PostgreSQL, and Firebase, offering streamlined document management.
- Gng Trades: Built a stock market SaaS platform using Motilal Oswal APIs, Next.js, PostgreSQL, and TailwindCSS. Features include real-time tracking, portfolio management, CSV imports, and premium upgrades via Lemon Squeezy.
- Zasya: Created a network management script integrated with Zabbix, parsing configurations, managing ARP entries, and visualizing networks. Tested with GNS3, incorporating error handling and logging.

### ANTINO LABS PRIVATE LIMITED, *Software Developer*

November 2022 – May 2023 | Gurugram, India

- Contributed to full-stack development by building scalable backend solutions with Node.js and creating dynamic user interfaces with ReactJS.
- Ensured data integrity and efficiency by managing relational and non-relational databases, implementing optimized queries and data structures.
- Collaborated within cross-functional teams using Git and GitHub, ensuring smooth version control and project integration.
- Enhanced application quality by conducting manual testing, documenting detailed test cases, identifying bugs, and implementing automation testing with Jest.

### RG-VP WEB SOLUTIONS, *Web Developer (HTML, CSS, Javascript, PHP, MySQL, WORDPRESS, Adobe Magento, File Zilla)*

January 2021 – December 2021 | Nagpur, India

- Over year of experience in web development, specializing in building and enhancing dynamic websites with features such as cost and experience calculators, optimized layouts, and end-to-end e-commerce solutions.
- Proficient in delivering seamless user experiences by leveraging modern web technologies and tools to create intuitive interfaces and streamline workflows.
- Demonstrated impact by improving website usability, reducing manual efforts through automation, and enhancing operational efficiency for clients and users.

## PROJECTS

### Chatty ✎

- Developed a real-time social networking platform with **Node.js, TypeScript, Redis, WebSockets, and MongoDB**. Implemented features like **authentication, posts, comments, chat, and notifications**, driving higher user engagement. **Deployed on AWS** using **Terraform** and **integrated CircleCI** for continuous delivery.
- 2d metaverse Extension Developed a 3D metaverse game inspired by Gather Town, creating interactive virtual spaces for real-life-like interactions where users navigate using keyboard controls. Designed robust system architecture, detailed database schemas, and scalable backend systems to support seamless multiplayer experiences.

#### Cloud Vault

- Built an elastic AWS EC2 (tried to clone infra and functionality) application with Next.js for frontend and Golang for backend, achieving on-demand scaling with a cost reduction, processing bulk client requests asynchronously. Also implemented a peer-to-peer distributed hash table, enhancing query response efficiency.

#### Ticket Master [↗](#)

- Designed and developed a ticket buying and selling application using **microservices architecture** with **Node.js** and **NATS Streaming**. Improved transaction processing speed, supporting user management, ticket inventory, payments, and events. Ensured scalability and resilience with **Docker** and **Kubernetes**.

#### NexusLogix [↗](#)

- Developed NexusLogix, a **full-stack supply chain management application** for the **ONDC hackathon**. Leveraged **Google Maps API**, **Node.js**, **React.js**, and **PostgreSQL** to streamline operations for manufacturers, distributors, and retailers. The application enhanced workflows and received positive feedback from its user community.

#### Cryptowatcher [↗](#)

- Developed a backend web scraper using **Axios** and **Cheerio** to fetch and parse the top cryptocurrencies. **Data is extracted from the HTML**, stored in an array, and **returned in JSON format**. For the frontend, used **React** to display the **cryptocurrency data**, which was eventually **converted into a Chrome extension** for seamless access.