

Aahil Khan

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SUMMARY

Full-stack developer and AI enthusiast with proven experience delivering scalable web, backend, and AI-powered applications. Adept at leading teams, architecting robust systems, and integrating LLM-driven features for real-world impact. Currently pursuing a B.E. in Computer Engineering and a Diploma in Programming from IIT Madras. Eager to contribute technical expertise to challenging, high-impact projects.

EDUCATION

• Thapar Institute of Engineering Technology

Bachelor of Engineering in Computer Engineering

- CGPA: 9.38

Aug 2023 – Present

• Indian Institute of Technology Madras

Diploma in Programming

- CGPA: 8.34

Sept 2023 – Present

• Saiyyid Hamid Senior Secondary School

Secondary Education

- Grade: 93%

July 2022

PROFESSIONAL EXPERIENCE

• Team Lead/ Full Stack Engineer — Thapar Edutube

Patiala, India

Next.js, Express, Node.js, PostgreSQL FTS, Redis, Docker | Thapar University

Oct 2024 – Present

- Led a team of 3 developers to build the complete frontend (Next.js) and backend (Node.js) for *Thapar Edutube*, an exclusive lecture archive for 10000+ university students.
- Currently leading storage and hosting setup, coordinating with faculty to record and upload lectures.
- Designing teacher dashboards for managing course flow, uploading resources, and customizing lesson sequencing.
- Developed auxiliary tools, including a slot booking app for reserving lecture recording times and an admin dashboard for customizing course, chapter and lecture structures.

• Backend Engineer — Datesheet Generator

Patiala, India

Flask, MySQL, Jinja2, Python | Thapar University

Mar 2025 – Present

- Re-architected the in-progress datesheet generator project from Flask sessions to a MySQL-backed, multi-user dashboard system.
- Implemented secure login, multi-user support, and savepoint functionality to allow partial work resumption.
- Enhanced datesheet creation workflow for improved usability and reduced scheduling errors.
- Currently integrating with the university's PeopleSoft Oracle database to automatically fetch student, course, and faculty details and push finalized datesheets directly.

PROJECTS

• SkillMap — Personalized Learning Engine

Next.js, Express, Node.js, Qdrant, GPT-4



- Built AI-driven platform to generate personalized learning paths based on resumes and user goals.
- Implemented skill taxonomy embedding in Qdrant, enabling semantic search and peer skill-matching.
- Integrated OpenAI's GPT-4 for automated gap analysis and personalized recommendations, streamlining the learning path generation process.

• Vehicle Parking App

Flask, Vue.js, SQLite, Redis, Celery



- Developed real-time parking management system with JWT authentication and granular role-based access.
- Integrated Redis caching and Celery-based scheduling, boosting API response speed by 35%.
- Built admin and attendant dashboards with live occupancy tracking and automated availability updates.
- Implemented scheduled reports and alerts for low availability, sent via email notifications.

ACHIEVEMENTS

• Innovation Award — Agentic AI Hackathon 2025 Organized by Ulster University (UK)

SKILLS

- **Programming Languages:** Python, Java, C++, C
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Next.js, Vue.js, Node.js, Express.js, GraphQL, Flask, Jinja2
- **AI & LLM Tools:** LangChain, OpenAI Chat Completions Endpoint, OpenAI Assistants API, Prompt Engineering
- **Search & Vector Systems:** OpenAI Embeddings, PostgreSQL FTS, Qdrant, Elasticsearch
- **Database Systems & ORMs:** PostgreSQL, MySQL, SQLite, Redis, SQLAlchemy, Prisma
- **Cloud Technologies:** AWS (EC2), Heroku, Vercel, Cloudflare Tunnels (cloudflared)
- **DevOps & Version Control:** Docker, Git, GitHub, GitHub Actions, CI/CD pipelines
- **Testing Frameworks:** Jest (unit testing), Postman
- **UI & Styling:** Bootstrap, MUI, Tailwind CSS
- **Other Tools & Technologies:** WSL, Kali Linux, REST APIs, Semantic Search, RAG