

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** Aug 2023 – Present
Bachelor of Engineering in Computer Engineering
 - CGPA: 9.38
- **Indian Institute of Technology Madras** Sept 2023 – Present
Diploma in Programming
 - CGPA: 8.34
- **Saiyyid Hamid Senior Secondary School** July 2022
Secondary Education
 - Grade: 93%

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