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.

PROFESSIONAL EXPERIENCE

- **Thapar Edutube** *Oct 2024 – Present*
  Team Lead & Full-Stack Developer
  ○ Spearheading development of a role-based educational video platform, improving scalability and accessibility.
  ○ Designed and deployed REST APIs, teacher dashboards, and CI/CD pipelines, reducing deployment time by 40%.
  ○ Conducting code reviews and mentoring team members to ensure high-quality, maintainable code.

- **DateSheet Generator Project** *Mar 2025 – Present*
  Backend Developer
  ○ Engineered database schema and backend services for automated exam datesheet generation.
  ○ Migrated Flask session management to a database-backed system, improving reliability and session persistence.

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.

- **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%.

SKILLS

- **Programming Languages:** Python, Java, C++, C
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Next.js, Vue.js, Node.js, Express.js, Flask, Jinja2
- **AI & LLM Tools:** LangChain, GPT-4, OpenAI Assistants API, Prompt Engineering
- **Search & Vector Systems:** OpenAI Embeddings, PostgreSQL FTS, Qdrant, Elasticsearch
- **Database Systems:** PostgreSQL, SQLite, MySQL, Redis
- **Cloud Technologies:** Heroku, Vercel
- **DevOps & Version Control:** Docker, Git, GitHub
- **UI & Styling:** Bootstrap, MUI, Tailwind CSS
- **Other Tools & Technologies:** WSL, Kali Linux, REST APIs, Chrome Extensions (in progress), Semantic Search, RAG

EDUCATION

- **Thapar Institute of Engineering Technology** *Aug 2023 – Present*
  Bachelor of Engineering in Computer Engineering
  ○ CGPA: 9.54

- **Indian Institute of Technology Madras** *Sept 2023 – Present*
  Diploma in Engineering in Programming
  ○ CGPA: 8.57

- **Saiyyid Hamid Senior Secondary School** *July 2022*
  Secondary Education
  ○ Grade: 93%