Akash Bais

Indore, Madhya Pradesh

📞 +91-7999639613 ✉ akashbais41203@gmail.com 🔗 bais-akash ⬡ akashhbais 📊 akashbais

EDUCATION

Shri Vaishnav Vidyapeeth Vishwavidyalaya   **Aug 2022 – Present**
Bachelor of Technology - CGPA - 8.13   *Indore, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Network Security
- Database Management System (DBMS)
- Artificial Intelligence
- OOPS Concept
- Web Development
- Android Development

PROJECTS

Navgo ⧉ | Java, React, Spring Boot, WebSockets, Android   **Dec 2024 – May 2025**

- Designed and developed a scalable real-time bus tracking system used to monitor 25+ buses, enhancing transit visibility.
- Built a custom Android app for drivers using FusedLocation API to continuously send GPS data via WebSockets.
- Implemented WebSocket-based backend using Spring Boot to broadcast real-time location data to subscribed frontend clients.
- Integrated PostgreSQL for route and metadata storage, ensuring seamless retrieval and management of bus data.

Facion ⧉ | Python, FastAPI, PostgreSQL   **Jan 2025 – Mar 2025**

- Developed a real-time facial recognition system enabling secure, low-latency employee check-ins via browser-based face capture.
- Implemented dual-model embedding using ArcFace and Vision Transformer (ViT) for robust facial matching across lighting and angles.
- Enhanced face quality using GFPGAN, improving recognition accuracy under low-light and blur conditions by 40%.
- Used MediaPipe and OpenCV for real-time face detection and processing from video frames.
- Designed live face registration and check-in APIs with FastAPI, storing embeddings in PostgreSQL for quick authentication.

Technical Skills

Languages: Java, Python, C/C++, SQL
Frameworks: Spring Boot, FastAPI
Databases: PostgreSQL, SQL Server
Technologies: REST APIs, WebSockets, OpenCV, PyTorch, TensorFlow, GFPGAN
Tools: Git, Postman, Android Studio, VS Code, Eclipse, Spring Tool Suite (STS)
Soft Skills: Problem Solving, Debugging, System Design, Leadership, Team Collaboration

EXTRACURRICULAR

Abhyudaya Coding Club   **Feb 2024 – Apr 2025**
Core Member, Project Lead   *SVVV, Indore*

- Led backend development for technical projects and conducted DSA workshops as instructor.
- Managed technical initiatives and finances in the role of Treasurer.

Computer Society of India (CSI)   **Feb 2024 – Nov 2024**
Member   *SVVV, Indore*

- Organized a college-level problem-solving contest to promote coding culture.

CERTIFICATIONS

- 6-star badge in Java on HackerRank
- 5-star badge in Problem Solving on HackerRank
- Solved 500+ DSA problems across platforms like LeetCode, Codeforces, and GFG
- Completed Spring & Spring Boot certification course on Udemy