

Software Engineer | Front-End & Full-Stack Development

EDUCATION

Bachelor of Technology (B.Tech.) in Computer Science & Engineering	Expected 2028
Shambhu Nath Institute of Engineering & Technology, AKTU	
Bachelor of Science (B.S.) in Computer Science & Data Analytics	Present
Indian Institute of Technology (IIT) Patna	CGPA: 9.0/10.0

PERSONAL PROJECTS

RideBuddy – Student Mobility Platform	GitHub
Java, Spring Boot, Spring Web, Spring Security, Spring Data JPA, PostgreSQL, Flyway, JWT, JUnit 5, OpenAPI/Swagger, React Native/Expo	

- Engineered a Spring Boot backend migration while preserving the existing Node.js backend and Expo application as compatibility fallbacks.
- Implemented JWT authentication, BCrypt security, RESTful ride and booking APIs, travel-intent matching, profiles, notifications, conversations, and message persistence.
- Integrated React Native/Expo application flows with REST APIs for ride booking, profiles, notifications, conversations, and travel-intent matching.
- Added PostgreSQL/Flyway migrations, Bean Validation, OpenAPI/Swagger, Docker Compose, GitHub Actions Maven CI, and automated tests; 12 Maven tests passed, 0 failures, 0 errors.

FlowMind AI – AI Workflow Automation Platform	GitHub
TypeScript, Next.js, Python, FastAPI, LangChain, OpenAI API, Google Gemini API, PostgreSQL, Google Sheets API, n8n	

- Engineered an agentic AI workflow platform using LangChain with OpenAI and Gemini APIs, implementing tool-calling for PostgreSQL queries, Google Sheets synchronization, and webhook-driven workflows.
- Developed FastAPI backend services for LLM orchestration, workflow execution, validation, execution logging, persistence, and analytics dashboards.

CampusMate AI – AI Student Assistant	GitHub
Next.js, React, TypeScript, Google Gemma, Google AI API, Vercel	

- Developed an AI-powered student web application using Next.js and React, with interactive UI flows and server-side API routes for topic explanations, study planning, and question answering.
- Deployed the application on Vercel.

Customer Churn Prediction	GitHub
Python, Scikit-learn, Machine Learning, Streamlit	

- Developed an end-to-end churn classification pipeline with preprocessing, feature engineering, precision/recall/F1 evaluation, and a Streamlit prediction interface.

EXPERIENCE

Microsoft Elevate x AICTE	Power BI for Business Applications Intern
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- Designed interactive Power BI dashboards and reports from business datasets for KPI visualization and data-driven reporting.

AICTE x VOIS	Cybersecurity Virtual Intern
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- Completed hands-on cybersecurity training covering network security, threat analysis, and risk management.

Ticky Tech Pvt. Ltd.	Full-Stack & App Development Intern
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- Contributed to application-development tasks using software development workflows and engineering practices.

TECHNICAL SKILLS

Languages:	JavaScript, TypeScript, HTML, CSS, Java, Python, C++, C, SQL
Frontend:	React, React Native, Next.js
Backend:	Spring Boot, Spring Web, Spring Security, Spring Data JPA, Node.js, Express.js, FastAPI
Web / APIs:	RESTful APIs, RESTful Web Services, API Development, JWT, JSON, Webhooks, OpenAPI/Swagger
Databases / Data:	PostgreSQL, MongoDB, MySQL, SQLite, Pandas, NumPy, Scikit-learn, Power BI
AI / ML:	Machine Learning, OpenAI API, Google Gemini, Google Gemma, LLM Integration, Agentic Workflows, Tool Calling, Data Analysis, Data Visualization
Developer Tools:	Git, GitHub, Postman, Maven, Flyway, Docker Compose, GitHub Actions, Vercel, n8n, Streamlit
Core CS:	Data Structures & Algorithms, Object-Oriented Programming, Database Design, Software Development

ACHIEVEMENTS

- Finalist – HackDivas 3.0 Grand Finale, Team HackShield.
- Presenter – IIT Patna Startup Showcase 2026, SafeTag.
- 30+ public GitHub repositories across AI/ML, backend, Python, SQL, and full-stack development.