

AKSHAY V

📍 Charlotte, NC (Willing to Relocate) | ✉ Email | 📞 704-400-5129 | 🌐 Portfolio | 🔗 LinkedIn | 🔄 akshay242524

SUMMARY

Computer Science student with expertise in Python, Java, SQL, and database management. Skilled in data analysis, data visualization, and machine learning, with hands-on experience in IoT and automation systems. Proficient in Tableau, Power BI, MySQL, and Microsoft Power Automate for delivering insights and optimizing workflows. Strong collaborator with proven ability to apply technical skills to real-world problem solving.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, C#

Frameworks & Libraries: React.js, Angular, Node.js, NEXT.js, Express.js, TensorFlow, Keras

Databases & Data Management: MongoDB, Mongoose, Redis, MySQL, PostgreSQL, Prisma, Firebase, Supabase

Cloud Platforms & DevOps Tools: AWS, Azure, Google Cloud Platform, Docker, Kubernetes, Jenkins

Debugging Tools: Chrome DevTools, Visual Studio Debugger, Postman

Other: Distributed systems, Microservices architecture, REST APIs, GraphQL, UML

WORK EXPERIENCE

Associate Software Engineer | Schneider Electric

Jan 2022 - Apr 2024

- Built and deployed end-to-end web applications using React.js, Node.js, and Express.js, increasing performance by 20%.
- Designed reusable UI components and optimized state management with Redux, reducing code complexity by 30%.
- Developed RESTful APIs and integrated MongoDB/MySQL for faster and more reliable data access.
- Automated deployment with Docker and GitHub Actions, cutting release time by 25%.
- Implemented JWT-based authentication and API rate limiting to strengthen security.
- Collaborated with designers and QA in Agile sprints, delivering features on schedule with minimal defects.

Software Engineer Intern | Schneider Electric

June 2022 - Dec 2022

- Assisted in developing a MERN-stack dashboard for analytics, reducing data-fetch time by 15%.
- Created and maintained API endpoints in Express.js, improving backend reliability.
- Built interactive React.js interfaces using hooks and responsive design principles.
- Supported deployment on AWS EC2 and managed version control with Git and GitHub.
- Participated in daily stand-ups and code reviews, learning Agile practices and improving collaboration.
- Documented technical processes to streamline onboarding for future interns.

PROJECTS

E-Commerce Web Application

- Developed a scalable e-commerce platform with product catalog, cart, and order management features using Next.js and Express.js.
- Designed optimized RESTful APIs and implemented Redis caching, reducing product retrieval time by 30%.
- Integrated Stripe API for secure payments and automated order tracking across multiple user sessions.
- Deployed on AWS EC2 with Docker containers, ensuring 99% uptime and smooth CI/CD delivery.
- Enhanced UX with server-side rendering (SSR) and responsive design, improving page load speed and engagement metrics.

Travel Itinerary Planner – Multi-AI Agent System

- Developed an AI-powered travel itinerary planner using LangChain, LangGraph, and LLM integration to create customized trip plans based on user input.
- Implemented a StateGraph workflow to manage conversation flow and itinerary generation through modular node functions.
- Collected and processed user preferences (city, interests, trip duration) to dynamically generate detailed itineraries.
- Automated itinerary creation using LLM prompts and optimized for coherent multi-step planning.

Bluetooth-based Home Automation System using Arduino

- Designed and implemented a Bluetooth-enabled home automation system using Arduino, enabling remote control of household appliances via mobile app.
- Created a responsive and user-friendly interface for efficient wireless operation, enhancing convenience and accessibility.

Real-Time Notes Application

- Developed a real-time collaborative note-taking web app using React.js and Firebase, enabling instant updates across multiple devices.
- Integrated WebSocket-based communication for live multi-user editing and synchronization.
- Implemented Google OAuth 2.0 authentication to ensure secure and seamless user login.
- Designed and deployed backend APIs with Node.js and Express.js, handling concurrent user sessions efficiently.
- Utilized Firebase Firestore for cloud-based storage and automatic data syncing across sessions.
- Deployed the application on Google Cloud Platform (GCP) with continuous deployment and monitoring for 99% uptime.

EDUCATION

Masters in Computer Science

Aug 2024 - May 2026 (Expected)

University of North Carolina, Charlotte | Concentration : Data Science

GPA: 4.0/4.0

Bachelors of Technology in Computer Science

Aug 2020 - May 2024

Vellore Institute of Technology ,Amaravati| Concentration : Data Science

GPA: 4.0/4.0

RESEARCH PAPER AND PATENT

- System and Method for Optimizing Range of an Electronic Article Surveillance System (Application Number:202311065375)
- [General Deep Learning Model for Detecting Diabetic Retinopathy.](#)