AKSHAY VISSAMSETTY

Charlotte, NC (Willing to Relocate) | ✉ Email | ☎ 704-400-5129 | 🌐 Portfolio | 🔗 Linkedin | akshay242524

SUMMARY

Software Engineer with 2+ years of experience developing scalable software systems using JavaScript/TypeScript and strong exposure to Java/C++ through academic and project work. Solid foundation in data structures and algorithms, system debugging, and software test engineering, with hands-on experience analyzing system performance and resolving production issues. Currently pursuing a Master's in Computer Science (GPA: 4.0), with a focus on building reliable, high-performance, and accessible applications.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, C#,HTML, CSS
Frameworks & Libraries: React.js, Angular, Node.js, NEXT.js, Express.js, TensorFlow, Keras
Databases & Data Management: MongoDB, Mongoose, Redis, MySQL, PostgreSQL, Prisma, Firebase, Supabase,Power Bi,Tableau
Cloud Platforms & DevOps Tools: AWS, Azure, Google Cloud Platform, Docker, Kubernetes, Jenkins
Debugging Tools: Chrome DevTools, Visual Studio Debugger, Postman

WORK EXPERIENCE

Associate Software Engineer | Schneider Electric   June 2022 - June 2024

- Developed and maintained production-grade software applications using JavaScript/TypeScript (React, Node.js, Express), supporting scalable enterprise systems.
- Built and optimized backend services and APIs, applying data structures and algorithmic techniques to improve performance and efficiency.
- Analyzed application logs and system metrics to debug production issues, diagnose bottlenecks, and improve code and system health.
- Contributed to large-scale data analysis and monitoring workflows, leveraging visualization tools and dashboards to track system behavior.
- Implemented unit and integration tests, improving reliability and reducing defects in production environments.
- Collaborated in Agile teams to deliver accessible and user-friendly features, following usability and inclusive design best practices.

Software Engineer Intern | Schneider Electric   Jan 2022 - June 2022

- Assisted in developing web-based applications using JavaScript/TypeScript, focusing on reliability and maintainability.
- Implemented backend logic using core data structures, improving response time and data handling efficiency.
- Supported debugging and root-cause analysis of frontend and backend issues through log analysis and testing.
- Participated in software testing and validation, ensuring correctness and stability of deployed features.
- Gained exposure to Java/C++ through academic coursework and problem-solving, applying OOP and algorithmic concepts.

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.

Retail Sales Analytics and Real Time Demand Forecasting

- Processed large-scale retail and customer review datasets using PySpark DataFrames, performing data cleansing, aggregation, and feature engineering.
- Built demand forecasting models with MLlib and evaluated performance using RMSE and MAE; applied cross-validation for model optimization.
- Performed sentiment analysis on customer reviews and integrated sentiment scores into product-level analytics.
- Implemented real-time analytics using Spark Streaming to monitor transactions and detect anomalous patterns.

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

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](#)