SAIDEEPAK AKKINAPALLI

Email: saideepak.akkinapalli62@gmail.com | **Phone**: +1 (913) 349-1756 | **LinkedIn** | **Location**: KS, USA

SUMMARY

Software Engineer with 3+ years of experience designing, developing, and deploying scalable, cloud-native applications across healthcare, fintech, and enterprise modernization domains. Proficient in **Java, Python, Spring Boot, React.js, Angular, and Node.js**, with strong expertise in **microservices, distributed systems, and AI-driven solutions**. Skilled in building and optimizing systems on **AWS, Azure, and Kubernetes**, and automating CI/CD pipelines using **Docker, Terraform, and GitHub Actions**. Experienced in integrating **AI/ML models** with TensorFlow, PyTorch, and FastAPI to deliver intelligent, data-driven software. Adept at collaborating across cross-functional teams, implementing **secure, high-performance architectures**, and applying **Agile methodologies** to drive innovation, reliability, and efficiency in software delivery.

SKILLS

- **Programming Languages:** Java, Python, TypeScript, JavaScript, SQL, .NET
- **Frontend Development:** React.js, Angular, HTML5, CSS3, Tailwind CSS
- **Backend Development:** Spring Boot, Node.js, Express.js, Django, Flask, FastAPI
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL Server, Redis
- **DevOps & Cloud:** AWS, Azure, GCP, Docker, Kubernetes, Terraform, Ansible, Jenkins, GitHub Actions
- **Messaging & APIs:** Kafka, RabbitMQ, REST, GraphQL, SOAP, Swagger
- **Testing & QA:** JUnit, Jest, Mocha, Cypress, Selenium
- **Security:** OAuth2, JWT, SSL/TLS, RBAC
- **AI & Intelligent Systems:** TensorFlow, PyTorch, Scikit-learn, OpenAI API, Hugging Face Transformers, LLM Integration, Pandas, NumPy, MLOps
- **SDE Concepts:** Data Structures & Algorithms, Object-Oriented Design, Design Patterns, System Design, Distributed Systems, Microservices, Multithreading & Concurrency, Performance Optimization, Problem Solving, Clean Code
- **Methodologies & Tools:** Agile, TDD, BDD, Git, Jira, Confluence, SonarQube

WORK EXPERIENCE

Humana   **July 2025 – Present**
Software Engineer

- Engineered and deployed the **CarePredict AI Platform**, a predictive analytics system leveraging **Python**, **FastAPI**, and **TensorFlow** to identify high-risk patients and enable proactive care interventions across large health data streams.
- Developed and optimized **microservices architecture** on **AWS** and **Kubernetes**, improving system scalability and reducing API latency by **30%** through **asynchronous processing** and **load balancing**.
- Implemented **MLOps pipelines** for automated model training, validation, and deployment using **Docker**, **Terraform**, and **GitHub Actions**, maintaining reliability and compliance with **HIPAA standards**.
- Collaborated with **data scientists**, **DevOps**, and **clinical teams** to integrate **AI-driven insights** into care workflows, improving coordination between technology and healthcare operations.

Pajosys Technologies LLC   **Jan 2025 – May 2025**
Software Developer (Intern)

- Designed and implemented responsive, visually appealing, and user-friendly web interfaces to enhance client application usability.
- Designed and implemented **responsive**, **visually appealing**, and **user-friendly web interfaces** using **React.js**, **HTML5**, **CSS3**, and **Tailwind CSS** to enhance client application usability.
- Integrated **front-end code** with **RESTful APIs**, ensuring smooth data exchange and reliable system communication.
- Conducted detailed **code audits** to identify performance bottlenecks and implemented **optimizations** to improve efficiency.
- Developed and executed comprehensive **unit tests** using **Jest** and **Mocha** to validate functionality, maintain software quality, and reduce errors.
- Identified, analysed, and resolved **front-end defects** and **bugs**, leading to improved application stability and user experience.
- Created and maintained well-structured **technical documentation** to support collaboration, **knowledge transfer**, and future development.

Trigent   **November 2020 – July 2023**
Software Engineer

- Contributed to the **Global Enterprise Application Modernization** initiative, transforming legacy monolithic applications into scalable, **cloud-enabled microservices** using **Spring Boot**, and **Angular**.
- Designed sand developed **RESTful APIs** and modular **backend components** to enhance interoperability and streamline communication across **distributed systems**.
- Modernized existing **.NET** and **Java** modules, optimizing performance and aligning architectures with **service-oriented design principles**.
- Built responsive **front-end interfaces** with **Angular**, **HTML5**, and **CSS3**, enhancing user engagement scores by 15% and ensuring consistent UI across enterprise platforms.

- Integrated **message queuing systems** such as **RabbitMQ** and implemented **API documentation** using **Swagger** for seamless team collaboration.
- Managed **deployments** and **CI/CD pipelines** using **Jenkins**, **Docker**, and **Azure DevOps**, reducing deployment time by 25% and improving release efficiency.
- Collaborated with cross-functional teams to **migrate on-premise workloads** to **AWS** and **Azure**, achieving 40% cost optimization and improved scalability across global regions.
- Followed **Agile** methodologies and applied best practices in **software design**, **testing**, and **version control** using **Git** and **Jira**.

PROJECTS

Real-Time Messaging & Collaboration Tool
- Designed and developed a **real-time messaging platform** using **Node.js**, **WebSockets**, and **Redis Streams** to support **low-latency communication**, **message persistence**, and a **scalable event-driven architecture**.
- Implemented **end-to-end encryption**, **user authentication**, and **presence tracking** to enhance **security** and ensure reliable, **high-performance collaboration** across **distributed environments**.

Digital Banking Platform
- Developed and deployed **secure microservices** using **Spring Boot** and **Kafka**, enabling seamless **transactions**, **authentication**, and **fraud detection** across **distributed banking modules**.
- Built and integrated **responsive user interfaces** with **Angular** and **RESTful APIs**, ensuring reliable communication between **client** and **backend systems** within a **high-availability architecture**.

EDUCATION

Master in Computer Science   **Aug 2023 – May 2025**
University of Central Missouri – Lee's Summit, MO | GPA: 3.50