# SaiNithinGoud Kurremula

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## SUMMARY

Software Engineer specializing in AI-driven applications, full-stack development, and scalable cloud systems. Proficient in Python, C++, Java, and JavaScript, with experience building LLM-integrated microservices, real-time APIs, and multi-platform apps. Skilled in LangChain, OpenAI API, React, Node.js, and AWS, with a strong foundation in algorithms, data structures, and distributed systems. Passionate about developing intelligent, user-centric software optimized for performance and reliability.

## TECHNICAL SKILLS

- **Programming Languages**: Python, C++, C, Java, JavaScript, SQL, TypeScript
- **Frameworks & Libraries**: React, Django, Flask, FastAPI, Spring Boot, Node.js, Tailwind CSS
- **AI/ML Frameworks**: PyTorch, TensorFlow, Scikit-learn, XGBoost, RAG Pipelines, Multi-Agent Systems, ARIMA
- **Databases & Data Systems**: PostgreSQL, MySQL, MongoDB, Redis, Vector Databases
- **Cloud & DevOps**: AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD Pipelines, Kafka, Terraform
- **Tools & Practices**: Algorithms & Data Structures, System Design, Git/GitHub/GitLab, Microservices, REST & GraphQL APIs

## EXPERIENCE

**Nuubi**                                                                                                       **Oct 2025 - Present**
*Software Developer Intern*                                                                                                          *Remote*
- Building AI-powered collaborative learning platform integrating LLM-based insights, real-time chat, and gamified engagement.
- Developed RESTful + WebSocket APIs with Express.js and Socket.io, enabling live group chat and notifications with < 100 ms latency.
- Integrated OpenAI GPT models for summarization, smart text suggestions, and moderation, improving user productivity by 35 %.
- Built React Native (Expo) apps for iOS/Android/Web supporting push notifications and live state sync.
- Collaborated on AI-based recommendation systems leveraging analytics to personalize engagement and retention.

**Skyinfolab Software Solutions**                                                                          **Jan 2024 - Aug 2024**
*Software Engineer*                                                                                                                   *India*
- Engineered modular Django + React web applications improving maintainability and reducing API latency by 30 %.
- Designed REST APIs with caching and optimized queries, improving throughput by 25 %.
- Built data layers using PostgreSQL / MongoDB with indexing + partitioning, reducing query times by 35 %.
- Automated CI/CD deployments with Docker + GitHub Actions, reducing release errors and downtime.
- Partnered cross-functionally in Agile sprints to debug, deliver, and optimize production systems.

## PROJECTS

**E-commerce & Real-Time Analytics Platform**
- Designed a microservices marketplace using Node.js, Kafka, and PostgreSQL, with REST + GraphQL APIs and a React frontend, improving page load times by 20 % and throughput by 40 %.
- Built a graph-based recommendation engine using adjacency lists, BFS/Dijkstra, and Redis caching, boosting conversions and reducing stock mismatches.
- Implemented Terraform + EKS CI/CD pipelines with idempotent webhooks and DLQs for exactly-once order processing and improved reliability.

**AI-Powered Financial Insights Platform (Finorn)**
- Built a full-stack financial management platform with smart invoicing, contract workflows, AI document generation, and real-time dashboards using Node.js, PostgreSQL, React, Stripe APIs, and JWT/RBAC security.
- Implemented AI-driven analytics—revenue forecasting, expense insights, and business health scoring—using LangChain, OpenAI GPT models, and Prophet, improving prediction accuracy by ~25%.
- Deployed a Dockerized AWS architecture (EC2 + Lambda + CI/CD) with data encryption and live KPI tracking to deliver enterprise-grade reliability.

**AI Network Threat & DDoS Detection**
- Designed pipeline: parsing & cleaning flow features (80+), scaling, feature selection, and SMOTE for imbalance.
- Trained RF/XGBoost ensemble to 98%+ F1; tracked ROC-AUC, precision/recall; threshold tuning per attack type.
- Packaged the model as a reproducible scikit-learn Pipeline with versioned artifacts; deployed in shadow mode to compare against baseline traffic before enforcing blocks.

## EDUCATION

**University of Cincinnati**                                                                                   **Aug 2024 - Present**
*Master's, Computer Science*
- **Coursework:** Algorithms & Data Structures, Distributed Systems, Web/Cloud Computing, Database Systems, Machine Learning

**Backstage Pass Institute of Gaming and Technology**                                                  **2020 - 2024**
*Bachelor's, Computer Science and Game Development*