

Sai Nithin Goud

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SUMMARY

Software Development Engineer with strong experience in full-stack development, cloud-native systems, and scalable microservices. Adept in Python, Java, React, and AWS technologies with a proven track record of building responsive, performant applications and REST APIs. Passionate about optimizing system performance, ensuring clean architecture, and delivering value through collaborative agile environments and robust Agile methodology.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++, C, SQL.

Frameworks and Libraries: React, Angular, Django, Flask, FastAPI, Spring Boot, Node.js, Tailwind CSS.

Databases: PostgreSQL, MySQL, MongoDB.

Cloud and DevOps: AWS (EC2, S3, Lambda), Azure, Docker, Kubernetes, CI/CD Pipelines.

Development Tools: Git, GitHub, GitLab, Visual Studio Code, PyCharm, Postman.

Software Development: Algorithms, REST APIs, Microservices, Agile Methodologies, Machine Learning.

EXPERIENCE

Sky InfoLab Software Solutions, India | Software Dev Engineer

Jan2024 – June 2024

- Designed and developed scalable web applications using Python and Django, implementing modular architecture and performance optimizations to enhance maintainability and reduce response times.
- Built and optimized RESTful APIs to enable seamless front-end and back-end communication, leveraging caching and query optimization to reduce API latency.
- Developed interactive and responsive user interfaces using React, JavaScript, HTML, and CSS, integrating state management and asynchronous data fetching to improve performance and user experience.
- Designed and implemented efficient database architectures with PostgreSQL and MongoDB, optimizing indexing, partitioning, and data caching to improve query execution speed.
- Worked in an Agile development environment, collaborating with cross-functional teams, debugging production issues, and utilizing Git and CI/CD pipelines for seamless version control and automated deployments

PROJECTS

E-commerce & Real-Time Analytics Platform — Django · Spring Boot · Kafka · GraphQL · AWS EKS · Stripe

- Built a microservices marketplace (auth, catalog, cart, orders, payments) behind an API gateway; JWT + RBAC across REST/GraphQL.
- Designed Kafka topics for orders, payments, inventory with back-pressure and partition-affinity, yielding +25% benchmark throughput.
- Live-recs feature store (fed by streaming topics) showed ~80% stock-mismatch drop and ~12% add-to-cart lift in offline evaluation.
- CI/CD: Jenkins → ECR → EKS rolling deploys in <5 min; Prometheus + Grafana dashboards; structured logs + alerts.

AI-Powered Resume Evaluator — CrewAI · LangChain · OpenAI · MySQL · AWS Fargate

- Auto-scaled to 1k files/min at \$0.047 / 100 résumés; results served via Flask + React dashboard.
- Multi-agent LLM pipeline scoring candidates 0-100 with tags/summaries; 92% match to human shortlists.
- Persisted results in MySQL with idempotent job IDs; built Flask API + React dashboard for search, filters, and exports.

Distributed Transaction Engine (Two-Phase Commit) — Java · PostgreSQL

- Throughput +20% via lock tuning, RPC batching, and thread-pool optimization; chaos-tested with Jepsen-style scripts.
- Implemented 2PC coordinator/participant with log-based recovery ensuring ACID across shards.

DDoS Detection — Python · scikit-learn · XGBoost · Flask

- Built 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.
- Flask REST service with <200 ms P99 inference; request quotas and caching for hot patterns.

MoneyScale – Smart Finance Management App — Next.js · React · Node.js · AWS (Lambda, EC2, S3) · PostgreSQL

- Real-time income/expense tracking with AI budgeting suggestions and trend forecasts (time-series features).
- OAuth2 auth, encrypted secrets, and row-level scoping; PostgreSQL with indexed queries and materialized views.
- Serverless + EC2 hybrid: Lambdas for ingestion/ETL, EC2 for the API; S3 for receipts/exports; background jobs for re-categorization.

EDUCATION

University of Cincinnati | Cincinnati, Ohio | Master's in Computer Science

Aug 2024 – 2025

Backstage Pass Institute of Gaming and Tech | Bachelor's in Computer Science and Game Dev

June 2020 – July 2024