GOWTHAM KUMAR SOLLETI

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PROFESSIONAL SUMMARY

Results-oriented Software Engineer (M.S. CS '24, Binghamton) with 2+ years building Java/Python/Go micro-services on AWS & GCP. Scales distributed systems to 500 K MAU, ships TDD-driven code through CI/CD, and leverages open-source stacks, currently deep-diving Google ADK, contributing AI-agent features. Passionate about innovation and continuous learning.

TECHNICAL SKILLS

Programming Languages: Python 3, Go, Java 17, JavaScript/TypeScript, SQL, Shell/Bash, HTML5/CSS3

Front-End: React/Next.js, React Native, Tailwind CSS, Web Vitals optimization

Back-End: Spring Boot, FastAPI, Flask, Django, Node.js, GraphQL, RESTAPIs, gRPC, Kafka, OpenAPI/Swagger, Web3.JS

Cloud & DevOps: AWS (EKS, EC2, Lambda, S3, DynamoDB, Kinesis), GCP (GKE, Cloud Run, Pub/Sub), Docker, Kubernetes, Helm, Terraform, GitHub Actions, Cloud Build, blue-green & canary deploys, Prometheus, Grafana, OpenTelemetry, SLO/SLA definition, AirFlow, Dagster

Data Stores & Caching: PostgreSQL, MySQL, DynamoDB, MongoDB Atlas, Redis, Amazon ElastiCache, S3 + Parquet data lakes, PL/SQL, Documentdb

Testing & Automation: Selenium, TDD/BDD, JUnit, PyTest, basic static analysis, integration testing, k6 load testing

Security & Privacy: JWT, OAuth 2.0/OIDC, AWS KMS, HashiCorp Vault, AWS Cognito

Gen AI & ML: Pandas, NumPy, Vertex AI, OpenAI API, Google ADK, RAG, ReAct, LLM, Agentic AI, Cursor, MCP, LangChain, NLP, CNN,

System Design Strengths & Culture: Event-driven architectures, CAP trade-offs, SAGA transactions, caching & sharding, global multi-region failover, Agile/Scrum facilitation, design-doc authoring, rigorous code review, open-source contributions

Certifications: AWS associate Solutions Architect (Mar 2024), **AWS Certified Associate Developer** (Mar 2024)

PROFESSIONAL EXPERIENCE

MealMatch AI - *Founding Software Engineer* | Miami, FL   *December 2024 – Present*
- Architected 15 Go and Python microservices on GKE with gRPC and Pub/Sub, scaling infrastructure to 500K MAU, 3K RPS, and 99.9% uptime reliability.
- Designed Stripe-based onboarding and checkout flow using SAGA pattern, reducing payment latency by 40% and increasing conversion significantly.
- Built a distributed scraping pipeline using Selenium, Scrapy, and Cloud Run to index 220K recipes, enabling GraphQL queries under 150ms p95.
- Developed a budgeting engine powered by Firestore triggers and Vertex AI forecasts, reducing user grocery expenses by 25% in pilot cohorts.
- Launched pantry-monitoring feature using Cloud Vision API and Cloud Functions, cutting household food waste by 30% and increasing DAU by 18%.
- Instrumented OpenTelemetry traces and Prometheus metrics stack, lowering MTTR to under 2 minutes and preventing multiple Sev-2 outages.
- Automated full prod-parity environment spin-ups with Terraform IaC and Cloud Build CI/CD, completing secure setup under 10 minutes with mTLS.

Lecheroo - *Co-Founder & Software Engineer* | Binghamton, NY   *December 2023 – Present*
- Designed and implemented an event-driven platform (FastAPI, AWS EKS, PostgreSQL) to ingest IoT milk-meter data with sub-200 ms p95 latency.
- Developed React Native retailer and consumer prototypes with QR-scannable labels to validate core flows and data accuracy.
- Automated a dynamic label-generation pipeline using Pandas, S3, and Lambda—reducing manual badge creation by 75%.
- Engineered a real-time pricing engine in Go with Stripe integration to model demand-driven pricing scenarios during MVP testing.
- Built end-to-end CI/CD pipelines with GitHub Actions and Terraform for zero-downtime deployments across staging and production.
- Instrumented full-stack observability with OpenTelemetry and Grafana RED dashboards, cutting mean time to insight by 50% and preventing Sev-2 incidents.
- Defined a subscription-based business model targeting a $2 B market, promising 10-minute delivery by deploying micro-distribution centers every 5 km to bridge users and milk retailers.

Information Data Systems Inc - *Software Engineer* | Binghamton, NY   *December 2023 – December 2024*
- Designed and implemented Hedera-based smart contract backends in Solidity, processing 100K+ daily transactions across five regions at sub-300ms p95 latency.
- Containerized and deployed Go/Python microservices to AWS EKS using ALB-gated gRPC and REST endpoints with fully automated blue-green deployments.
- Built multi-AZ auto-scaling clusters with Helm and Terraform, sustaining 99.9% availability even during burst traffic and high-load production events.
- Integrated HashiCorp Vault with AWS KMS and mTLS authentication to enforce least-privilege access and secure environment-level secrets at scale.
- Built a real-time HR analytics dashboard with DynamoDB Streams, Lambda, and WebSockets, enabling recruiters to view live funnel insights and shorten cycles.

Tavant Technologies - *Junior Software Engineer* | Bangalore, India   *August 2021 – July 2022*
- Engineered an AI-powered marketing pipeline using SageMaker and Kinesis, increasing user engagement by 15% across three enterprise product lines.
- Developed a contract-pricing application (React + FastAPI) hosted on AWS Lambda and S3, supporting 5K concurrent sessions at 99.9% uptime.
- Optimized ETL workflows for 2 M+ records using Pandas vectorization and Parquet formats, cutting preprocessing time by 40% for nightly retraining.
- Trained a high-accuracy Random Forest model on a 10GB dataset, reaching 95% accuracy and enabling a 25% uplift in revenue through dynamic pricing.
- Containerized microservices with Docker, deployed on ECS Fargate, and codified repeatable production infrastructure using Terraform modules.

PROJECT EXPERIENCE

PitLaneLabs.ai (Gen AI automobile-engineering assistant (**MVP),** *Independent Link*   May 2025 – Present
- Engineered a 0 → 1 full-stack chatbot with Python/FastAPI and React, processing 3K+ engineering documents (textbooks, CAD specs, PDFs, images) in a Faiss and Pinecone vector store. LangGraph agents convert natural language to Onshape CAD calls, aerodynamic simulations, and BOM outputs, providing <1s contextual answers validated by RAGAS & DeepEval. Currently halfway through a 90-day MVP, with frontend complete and backend/AI agents being refined.

E-Voting Decentralized application, *Independent Link*   October 2023 – May 2024
- Built a decentralized blockchain-based voting platform using Solidity, Java, and AWS, ensuring transparent and tamper-proof digital elections.
- Developed RESTful APIs and PostgreSQL-backed authentication modules, enabling secure, scalable, and fault-tolerant user onboarding at scale.

LEADERSHIP EXPERIENCE

- Member of Student Advisory Committee (Computer Science Department) | **Binghamton University**   Aug 2022 – May 2024
- President for the Graduate Student Organization (Computer Science Department) | **Binghamton University**   May 2023 – May 2024

EDUCATION

Binghamton University, State University of New York   **Binghamton, NY**
Master of Science in Computer Science   *May 2024*
Coursework: Database Systems, Cloud Computing, Data Mining, Computer Security, Design and Analysis of Algorithms, Operating systems, Design Patterns, Computer Architecture, Software Project Management, Distributed Systems, Programming Languages(Haskell, Prolog, Scheme)

Visvesvaraya Technological University   **Belagavi, India**
Bachelor of Engineering in Computer Science   *May 2022*
Coursework: Data Mining and ML, Quantum Cryptography, Big Data Analytics with HP Vertica, Advanced Database Systems, Hadoop, Hive