

Gurudatta Patil - He/Him

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SKILLS SUMMARY

- **Languages:** Python, Go, JavaScript, React, Dart, C++, SQL
- **Artificial Intelligence/Machine Learning:** OpenAI Completion API, LangChain, TogetherAI, PyTorch, TensorFlow
- **Cloud & DevOps:** GCP, AWS, Docker, Kubernetes, CI/CD, Terraform, GCS, Information Technology, Compute (EC2, GCE), Serverless (Lambda, Cloud Run), Auth (Cognito, Firebase), Logging (CloudWatch)
- **Databases & APIs:** PostgreSQL, MySQL, Firestore, Redis, WebSockets, Protobuf, REST API

PROJECTS

• AI-Powered Interactive Storytelling Game

Tech Stack: Go, Dart, Python, GPT-4o, TogetherAI, Docker, GCP, GCS, Firestore, Redis, WebSockets, Protobuf

- Architected a full-stack AI game using OpenAI completion API for narratives and APIs for image generation. LLM Infra and Golang service pods deployed on Kubernetes.
- Engineered complex Go backend systems, including real-time PvP with seasonal leaderboards and deep character/equipment progression, gacha systems, servers for competitive gameplay.
- Developed a performant, cross-platform (iOS/Android) frontend using a low-latency WebSocket API (Protobuf) for real-time data transfer and Redis for maintaining 100000+ active connections.
- Leading live beta testing with 137 daily active users (DAU) with weekly updates to address customer needs and deploy features.

• UW Madison-Research Assistant- Finding Anomalies in Cancer Cells

Tech Stack: Python, Docker

- Developed multiple algorithms to analyse, study Single Nucleus ATAC-Seq, finding crucial data to treat cancers.
- Deployed multiple instances to scale projects and run the pipeline on multiple snATAC-sequences and creating interactions between these results to create valuable insights on cell behaviour.

EXPERIENCE

• HP Inc.

Austin, TX

Software Development Engineer II (prev. Intern)

Jan 2025 - Present

Tech Stack: Python, React, Kubernetes, Docker, C++

- Architected and built SONAR, a live diagnostics platform for 1000+ concurrent A/V streams, after identifying critical developer pain points around debugging complexity. Completed full lifecycle from prototype to production in 2 weeks.
- Worked on deploying ML Models to Android, helped triage memory leaks in C++ versions, architect pipelines, lead end to end inference workflows.
- Engineered an end-to-end image labeling pipeline with 6 ML models and a customer-facing React tool, boosting labeling efficiency to 150,000 images per day for 45+ users.

• Razorpay

Bangalore, India

Software Development Engineer I

Feb 2022 - Aug 2023

Tech Stack: Golang, Python, AWS, Kubernetes, Redis, Terraform

- Owned the end-to-end backend development for the Rize service, creating 100+ REST APIs and scaling the system to reliably handle 10k+ daily requests for 3,000+ entrepreneurs.
- Collaborated directly with customers and product managers to translate user feedback into backend architecture and product features, influencing the roadmap.
- Managed CI/CD pipelines (GitHub, Spinnaker) for 5 microservices, enabling automated testing and rapid, reliable releases in a fast-paced environment.

• Fragments

Singapore

Cofounder

May 2022 - Dec 2022

Tech Stack: React, Golang, Python, AWS Lambda, DynamoDB

- Co-founded a DAO platform; architected backend services with 100+ APIs on AWS Lambda to scale the product to 25,000 MAU and \$100,000 in revenue.
- Developed a React-based drag-and-drop interface to simplify contract creation and drive user adoption.
- Involved in creation of 100+ APIs for fully functioning website leveraging cloud services for scalability.

• TomTom

Pune, India

Software Engineer Intern

July 2021 - Dec 2021

Tech Stack: Python, PyTorch, Kubernetes, AWS

- Applied artificial intelligence concepts to develop a PyTorch DNN that detects 100+ traffic signs from satellite imagery, deploying on AWS to automate map updates for 50+ cities.
- Engineered an automated ML pipeline reducing map update time by 95% and improving data accuracy for millions of users.

EDUCATION

• University of Wisconsin-Madison

Madison, WI

Master of Science, Computer Engineering; GPA: 4.0/4.0

Aug 2023 - Dec 2024

Relevant Fields: Foundation Models, Machine Learning, Computer Vision, DBMS, Computer Science Theory

• Birla Institute of Technology and Science, Pilani

Pilani, India

Bachelors of Engineering, Computer Engineering

Aug 2018 - Dec 2021