

Priyatham Bazaru

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SUMMARY

Software Engineer with 4 years of experience leading production-grade full-stack systems, specializing in data-intensive applications with scalable APIs. Proficient in Go, Python, and TypeScript with hands-on deployment of open-source AI models and databases. Avid open-source speaker and self-hosting media archiver.

CORE SKILLS

Languages: C, C++, Python, Go, Java, JavaScript, TypeScript, SQL, Bash, Rust, PHP

Frameworks: FastAPI, Node.js, React.js, LangChain, Spring Boot, Android SDK

Infrastructure: Docker, Kubernetes, Argo workflows, Terraform, AWS (Lambda, S3, EC2), GCP (Cloud Run, Pub/Sub), Azure, Datadog

System Admin: Linux/UNIX, bash/Shell Scripting, Proxmox, VMWare, Microsoft 365 admin controls

Data & Pipelines: Dagster, PostgreSQL, MongoDB, Kafka, Redis, Avro, gRPC, Snowflake, ETL, Tableau

AI tools : ChatGPT, Claude, Ollama, MCP, Vortex AI, Code agents, Embedding servers, Codex, Cursor, agentic workflows

EXPERIENCE

Software Consultant – SPL Systems

2025 – Present

- Managing their AI and data servers with routine maintenance to their Proxmox cluster with over 35 services. Optimizing system performance through bash automation scripts and protocol-level debugging.
- Developed scalable python-based backend services with Spring Boot for video/audio streaming pipelines, integrating with **React-Native** using server management for livekit and **OAuth, okta** as well as SSO for many organizational clients.
- Architected on upgrading legacy backends to **Rust and Python** for **Next.js** with **Typescript** applications including **WASM** add on for offloading computation.

Sr. Software Engineer – New Frontier Funding

May 2025 - Sept 2025

- Led microservice architecture and deployment of financial analytics platform using **Python, PostgreSQL, Redis** and ML-enhanced pipelines, with **Azure** for Java-based services
- Integrated third-party GenAI APIs for document classification, and optimized model input prompts and formatting logic including **GraphQL** and **Spring Boot**
- Developed Java backend systems using **Spring Boot** and **MVC architecture**, connected over 10+ Bank application APIs, ensuring secure data handling and TCP/IP and SSL implementation.
- Built secure deployment CI pipelines using Bazel with compliance checks (**SOC2, GDPR**), in isolated DevOps environments in the cloud

Technical Lead & Credentials Specialist – Innovation Incubator, Cal Poly Pomona

2022 – 2025

- Built credential verification APIs using **Spring Boot** and Open Standards for academic datalakes
- Integrated credentials into State HRIS and enterprise systems, leveraging Python-based backend services for secure data handling
- Developed multi-stage batch pipelines for credential ML transformation using **Python and Go**, with Spring Boot-frontend observability
- Expanded test suites with Cypress, Jest, and Selenium, ensuring compliance with state regulations for SaaS using **Test-Driven Development**
- Mentored junior developers on **Docker** and **GitHub Actions**, emphasizing Robustness for reproducible, scalable microservices

Software Engineer Intern – Cognizant, Cisco Networking, Cantilever Labs, Freelance

2019 – 2022

- *Cisco Networking Academy – Cybersecurity Intern*: Worked alongside **CCNA training group** laying out university level networking and minimizing threats in current topology. Worked with **OpenWRT** on compatible routers building OS based on **C build tools** and low level interface mapping.
- *Cantilever Labs – Intern*: Created serverless ML pipelines with **AWS Lambda**, for Java-based REST APIs to trigger batch/event-based jobs
- *Freelance*: Built cloud-deployable OCR tools with **Node** backend, **REST APIs**, and frontends for financial document processing, using **Tesseract, Go, and S3 buckets**

PROJECTS

AI Grading Vision: led creation of **OCR Inference** pipelines for identifying written text over answer sheets for universities. Built secure cloud workflows using **Azure Functions** and OCR models via **Ollama and Qwen2.5-vl**, accessed through Golang custom APIs and image processing pipelines with Python Transformers to use bleeding edge weights yielding over 80% accuracy.

Serverless Lead Pipeline: designed and implemented a real-time, AI-driven lead processing system using **Go, PostgreSQL**, and Google Cloud Platform (GCP). Integrated **GPT-based text classification** models to automatically categorize and route leads based on customer intent and historical engagement data. Developed Slack and HubSpot API integrations for automated notifications, reporting, and CRM synchronization. Deployed using containerized microservices resulting in 2s client engagement for higher retention.

Self-Hosted Cloud Infrastructure: Engineered a home-lab ML inference system using repurposed hardware and custom **LXC containers**. Deployed 20+ services including Ollama (LLMs) and GPU-accelerated image pipelines. Integrated Grafana + InfluxDB for observability using Kubernetes. Handled media server with over 100+ movies including **memory management** and storage using **ZFS and RAID**

Mapping Real Estate: Finding and analysis county mandated land rules is hard. This is a lightweight **React + GeoJSON** based mapping interface designed to visualize, explore, and interact with San Diego land planning datasets. Used **ArcGIS** APIs with OSM in the form of geoJSON layers toggling and analysis varying regulations and rules on a given land. With business logic and requirements, using open source **Qwen2.5 AI models** to predict the ADU units to build. Helping various building planner and real estate brokers to quickly estimate and provide number and client to know the land worth and potential.

EDUCATION

Master of Science in Computer Science – California State Polytechnic University, Pomona

2022 – 2024

Bachelor's in Computer Science and Engg. – Mahatma Gandhi Institute of Technology, India

2018 – 2022

PUBLICATIONS, WHITE PAPERS & SPEAKING ENGAGEMENTS

Bazaru, P.S.C. (2024). **Harnessing the Crowd for Privacy-Enhanced Cloud Monitoring and Deployment**. M.S. Thesis, Cal Poly Pomona.

Bazaru, P.S.C. (2021). **Serverless Architecture for Bulk Email Management**. arXiv: 2201.11216. using AWS SES and SQS in research study.

Speaking Engagements: SCALE 2026 - *Networking and Dynamic DNS on a budget*; JsTek 2026 - **Serverless success & Advanced serverless pipelines**; Badge Summit 2024 – *Badge adoption and automation* User Experience of Digital Credentialing; Summer Conference 2023 & 2025 – *Digital Credentials Implementation*; *Using AI Effectively in Higher Education*.