

PARATH SINGH

Senior Software Engineer

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SUMMARY

Accomplished Senior Software Engineer and technical leader with over a decade of experience architecting and scaling backend systems across Fintech, Esports Betting, IoT, and AI. Proven track record leading engineering teams from product inception through production delivery, driving system architecture, and building highly concurrent, distributed platforms, including LLM-driven AI agents integrated with real-time production systems. Skilled at translating business needs into robust technical solutions while mentoring engineers and owning end-to-end technical direction.

EXPERIENCE

Senior Backend Engineer — Oddin.gg

09/2025 - Present

- Serve as technical lead for a team of 5 engineers, designing and building highly concurrent, scalable backend systems for the esports betting industry.
- Joined during the product's earliest development phase and guided the team through to delivering a complete, production-ready solution now live with the client.
- Architected and led development of a real-time odds engine, a bet-settlement pipeline, and a Kafka-based event-streaming pipeline powering core platform operations.
- Designed and built AI-powered applications and LLM-driven agents, integrating them into the core platform to support and automate key backend workflows.
- Deployed AI agents in the community system that answer users' questions using real-time bets and markets data, giving players instant, accurate responses on live odds, market status, and bet outcomes.
- Connected the community agents to the odds engine and Kafka event streams so answers are grounded in live platform data rather than stale snapshots, reducing manual support load.

Tech Stack: Golang, Kafka, RabbitMQ, PostgreSQL, AWS, LLM, AI Agents

Senior Software Engineer — Buildwealth Technologies Ltd

06/2022 - 09/2025 | Abu Dhabi

- Developed highly scalable and performant server-side applications for a trading platform.
- Built a centralised payment system to communicate with multiple payment gateways across various payment types.
- Led a team of software engineers working in the payments and trading domain.
- Set up an OTEL-based observability system to collect metrics, traces, and logs across all deployments.
- Implemented rate limiting across the Kubernetes cluster.
- Designed and developed a common RBAC policy-based application.
- Developed an internal OAuth system.
- Set up a workflow engine using Temporal for investment proposals and customer onboarding.
- Built a Model Context Protocol (MCP) server for LLM agents.
- Deployed AI agents that interact with existing wealth-tech services (trading, payments, investment proposals, and customer onboarding) through the MCP server, enabling natural-language access to platform data and automating routine operations.
- Integrated the agents with the internal OAuth and RBAC systems so every agent action is permission-scoped and auditable across financial services.

Tech Stack: Golang, Flutter, React.js, NATS, Kafka, Kubernetes, GCP (Compute, Cloud SQL, Logging), AWS (CI/CD, S3, EC2), Azure (dev environments), Redis, Python, Airflow, ClickHouse, Victoria Metrics, OpenTelemetry, Temporal, LLM, AI Agents, MCP Servers

Senior Product Engineer — Lockstep

03/2022 - 06/2022 | Remote

- Designed and developed a scalable, sustainable platform for finance.

Tech Stack: Ruby on Rails, Golang

Senior Software Engineer — Zensar Technologies Ltd

09/2020 - 03/2022 | Bangalore

- Led a team of Golang developers building e-commerce and online learning platforms.
- Designed and developed highly scalable, resilient microservices for an e-commerce application using Golang, deployed on AWS EKS.
- Used MySQL and MongoDB for persistent storage, with Redis for caching and Kafka for log buffering and pub-sub communication.

Senior Software Engineer — Havells India Pvt Ltd

06/2019 - 09/2020 | Noida

- Developed IoT applications for smart factories to remotely monitor equipment and enable predictive maintenance, with alerts and live status delivered via WhatsApp.
Tech Stack: Azure Cloud (IoT Hub, IoT Central, Stream Analytics, Cosmos DB), MQTT, Mosquitto Broker, KEPServerEX, ThingWorx, Node.js, Golang, C#
- Designed and developed microservices providing an interface for NLP-based chatbots.
Tech Stack: Golang, Docker, Google Dialogflow
- Integrated WhatsApp for Business with internal data services to deliver a user-friendly interface for customers, employees, and dealers.
Tech Stack: Golang, Python, Docker, AWS Rekognition, Google Dialogflow
- Designed and developed an anti-spoofing face recognition system for attendance tracking.
- Developed and trained models to detect real users via camera using OpenCV and Python.

Software Developer - Backend — Cricbuzz

03/2018 - 05/2019 | Bangalore

- Developed highly concurrent, scalable microservices and serverless functions using OpenFaaS, with a stack spanning Scala Lagom and Golang (go-micro, go-kit frameworks), Kafka, Redis, MongoDB, and Docker containers.
- Designed and developed a robust, highly concurrent search engine using the ELK stack and Golang, improving search accuracy with an LTR Python library to dynamically rank ELK documents.
- Designed and developed a content-based video recommendation engine.

Software Developer, Cloud Apps — Chipmonk Technologies

04/2017 - 03/2018 | Bangalore

- Architected, designed, and developed a highly scalable, robust IoT application for smart street lighting, enabling remote and local monitoring, scheduling, and operation of street lights.
Tech Stack: Golang, HTML5, JavaScript, Kafka, MQTT, LoRaWAN, AWS EC2, RDS, Socket Programming
- Designed and developed IoT applications for smart home appliances, including water heaters, fans, and lights.
Tech Stack: Golang, Redis, MQTT

Cloud Application Developer — IBM India Pvt Ltd

06/2015 - 04/2017 | Bangalore

- IBM Certified Cloud Application Developer; worked on the IBM Bluemix cloud platform.
- Developed Cloud Foundry applications to be used as microservices, on Java Liberty and Node.js runtime environments.
- Worked on integration of cloud SaaS applications (using JAX-RS API) and created a monitoring solution for cloud applications and the cloud platform (using Node-RED framework).
- Worked on Runscope API monitoring tool and integrated Runscope with IBM work load automation tools.
- Worked on Rundeck, an open source tool for automation.
- Completed an e-commerce project including an IBM WebSphere Commerce application; technologies involved core Java, JSP, Struts 2.
- Worked on monitoring and process automation in IoT projects.
- Designed and developed a monitoring tool written in the Node-RED framework.

EDUCATION

B.Tech in Computer Science and Engineering

National Institute of Technology Goa | 07/2011 - 05/2015

Senior Secondary Education

Govt. Sr. Secondary School, Hindaun City | 07/2009 - 05/2010 | Marks obtained: 78.62%

Secondary Education

Nehru Public Sr. Sec. School, Suroth | 07/2007 - 06/2008 | Marks obtained: 83.67%

SKILLS

Golang, Kafka, RabbitMQ, PostgreSQL, MySQL, MongoDB, NoSQL, AWS, GCP, Azure, IBM Bluemix, Kubernetes, Docker, Ansible, GitLab, Caching, NATs, ELK Stack, IoT, MQTT, Java, JavaScript, Flutter, Deep Learning, NLP, OpenCV, PLSQL

LANGUAGES

English — Proficient Hindi — Native