

Priyanka Chatterjee

Software Engineer | 3+ YOY

Node.js | Golang

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📍 Kolkata, West Bengal, India

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SUMMARY

Backend Software Engineer building distributed, event-driven systems in Node.js and Go across AWS, Azure, GCP, OCI, and AliCloud; core contributor to four open-source products (9,300+ GitHub stars, 120+ merged PRs) with shipped impact: 70–90% resource-discovery latency cuts, eliminated audit false positives, and unblocked platform-wide runtime upgrades.

SKILLS

Programming Languages: Javascript (ES6+), Typescript, Golang, Python, Bash, JAVA, SQL

Frameworks & Libraries: Node.js, Express.js, Gin, Serverless Framework, React, Bun, Kafka

Databases: MySQL, PostgreSQL, Firebase, DuckDB, Redis

Cloud & DevOps: AWS, Azure, GCP, OCI, Docker, Terraform, OpenTofu, Git, Github Actions, JIRA

Web Services & APIs: RESTful APIs, GraphQL, WebSockets, gRPC, MCPs

System Architecture: Microservices, Event-Driven Architecture, Serverless

AI Developer Tools & SDKs: Cursor, Claude Code, Codex, Vercel AI SDK, Pydantic AI & OpenAI Agents Framework

Observability & Tracing: Datadog, Logfire, OTel

PROFESSIONAL EXPERIENCE

Software Engineer I

Turbot HQ, Inc. 📍 Remote

📅 Aug 2022 - Apr 2026

- Built core Tailpipe features in Go, resulting in a 30% increase in processing speed and handling 1,000+ logs per second by chunking and batching the log files during file read operation and efficiently writing in DuckDB, optimizing it to consume less memory removing Out Of Memory issues, and easing incremental updates.
- Led the AWS JS SDK v2 → v3 migration across 11+ AWS services in AWS Lambda functions.
- Migrated 35+ Azure cloud-governance modules from polling to push-based eventing using Azure Event Grid — cutting resource-discovery latency by 70–90% and eliminating recurring Azure API throttling incidents; authored a LLM-driven Claude Code Skill that automated the migration end-to-end (refactoring code, unit tests, deployment, Terraform-driven integration tests & PR creation).
- Authored multi-cloud compliance modules in HCL covering 1,000+ resource checks, leading to a 50% reduction in compliance audit time for enterprise customers.
- Optimized PostgreSQL queries, improving query performance by 40% and reducing audit report generation time from 3m to 1.5m.
- Added multi-distro Linux smoke tests for Turbot's Go CLIs to their release pipeline in Github Actions ensuring safer builds.
- Developed a cloud-native application called Turbot Guardrails using microservices architecture on AWS, which is a cloud resource governance tool used to enforce policies and track vulnerabilities. This involved containerizing services with Docker and orchestrating them with Kubernetes.

Frontend Software Developer Intern

Trisetra, Inc. 📍 Remote

📅 Feb 2022 - Jun 2022

- Developed a 3D-geometry library that improved the furniture-placement feature, as measured by enhanced user experience, by implementing computational-geometry algorithms for footprint and inner-polygon extraction from various mesh boundaries and introducing the first Mocha unit-test setup with real 3D-asset fixtures.
- Redesigned the user-upload workflow, impacting over 60 files, as measured by increased user engagement, by integrating Google Maps autocomplete, drag-and-drop upload functionality, a history dashboard, invite-code sign-up, and improved empty/error states; led a responsive design update for the 3D model generator and Image Canvas across mobile and desktop platforms, while resolving AR/VR panorama rendering issues across different viewports.

EDUCATION

B.Tech in Computer Science & Engineering | CGPA - 9.45

📅 Aug 2019 - May 2023

University of Engineering & Management 📍 Kolkata, India

Coursework - OOPs Concept, DMBS, DSA, LLD & HLD

ACHIEVEMENTS

Active across all four Turbot OSS products — Steampipe, Powerpipe, Flowpipe, and Tailpipe — with 120+ merged PRs, 4,200+ commits across 79 repositories, and 9,300+ combined GitHub stars.

PROJECT EXPERIENCE

TODO App REST APIs

API-first architecture with RESTful API backend built with Typescript, Bun, Express.js 5 and SQLite3 as database featuring:

1. JWT Authentication with Access, ID, & Refresh Tokens
2. CRUD Service Layer
3. Middleware to track heatmap of routes
4. Database Migrations
5. RBAC

General-Purpose AI Chatbot with Model Context Protocol

General purpose agentic chatbot built with **Pydantic AI Framework** with the following features:

1. Ability to configure external **MCP** servers using a persistent registry
2. Native tool calling support
3. Multi-model switcher (OpenAI, Gemini, Anthropic, Mistral) in between conversations.
4. Streaming output
5. Prompt injection validation
6. Logfire Observability

Friend-A-Book [↗](#)

Real-Time PDF Sharing Platform built using React & Firebase (Firestore + Storage + Google Auth) featuring:

1. Realtime Chat
2. Email & Push Notifications using OneSignal
3. Full-text DB search using Elasticsearch

LANGUAGES

English, Bengali, Hindi

 [priyanka-chatterjee-2000.github.io](https://github.com/priyanka-chatterjee-2000)

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