Chinmaya Samantara

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Summary

Backend engineer with 8 months of experience building REST APIs with Node.js, TypeScript, MongoDB and PostgreSQL. Open-source contributor with 103 merged PRs across Mifos X and Apache Fineract.

Experience

100xDevs Feb 2026 – Present
Backend Engineer *Remote*

- Built **REST APIs** with Node.js, Express and TypeScript, including input validation and error handling
- Designed **MongoDB** schemas with Mongoose, using embedding, references and indexes for frequent queries
- Added **JWT** authentication and authorization middleware to protect private endpoints
- Built **Multer** file uploads that validate file type and size before cloud storage

Projects

komp | *Rust, MCP, Kubernetes, Next.js* Website | GitHub | *Nov 2026*

- Built a Rust CLI and **MCP** server that compresses application and Kubernetes logs before Claude reads them
- Cut a 2,001-line Go outage log from ∼75,958 to ∼344 tokens while keeping key errors and time ranges
- Groups repeated lines with **Drain**-style template mining across Docker, containerd, nginx and Apache logs
- Refuses non-log and binary input, and redacts secrets and personal data locally before Claude sees the summary
- Benchmarked on Apple M5: 27 ms and 15.8 MB for 2,001 lines, 632 ms and 131.5 MB for 100,050 lines
- Shipped 59 tests, **CI** on 3 operating systems, strict lint checks and release binaries for 5 platforms
- Built the **Next.js** website with a replay of a real run, scroll-driven animations and benchmark charts

n8n Clone | *TypeScript, Bun, Elysia, PostgreSQL, Drizzle ORM* GitHub | *In Progress*

- Building a workflow automation platform inspired by n8n, with a PostgreSQL schema in Drizzle ORM
- Built a **workflow engine** that follows graph edges, passes node output forward and stops loops
- Built an **Elysia REST API** with Swagger docs to create and run workflows and save execution results
- Added **webhook** triggers that use the request body as input, and **cron** schedules for active workflows
- Added **better-auth** email/password login with cookie sessions and per-user workflow access
- Validated workflows with **ArkType** before saving, and returned one consistent JSON error format

Open Source

Mifos Online Banking | *Self-Service Plugin, MCP Server* Demo | *Nov 2026*

- My self-service contributions were deployed to the Mifos online banking demo
- Merged 8 plugin PRs for beneficiaries, guarantors, loan simulation limits and savings applications
- Merged 19 MCP server PRs, including two-step transfers, loan checks and clearer bank errors

Paradev | *TypeScript, Electron, Bun* PRs | *Nov 2026*

- Opened 3 PRs (in review) and traced failing Apple passkeys to a macOS launch rule; maintainers now track it

Leadership & Code Review

Open-Source Code Reviewer | *Apache Fineract, p5.js Web Editor* All Reviews | *Sep 2026 – Present*

- Fineract #6936: flagged an ObjectMapper that skipped shared JSON settings; author adopted the shared one
- Fineract #6478: restored the old query to prove the PostgreSQL regression test catches the bug
- Fineract #6500: tested hold and release transactions to verify a savings running-balance fix
- p5.js Web Editor #4305: traced a visibility dropdown bug to a reducer crash and suggested a test

Technical Skills

Languages: JavaScript, TypeScript
Backend: Node.js, Bun, Express, Elysia, REST APIs, JWT, middleware, error handling
Databases: MongoDB, PostgreSQL, Mongoose, Drizzle ORM, schema design, indexing
Tools: Git, GitHub, Postman, Cloudinary, Render, VS Code

Education

Birla Institute of Technology and Science (BITS), Pilani
Bachelor of Science in Computer Science *Pursuing*