

Shashwat Pratap Singh

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SUMMARY

Software engineer who designs, implements, and maintains production features for service-based applications. **GSoC 2026 (3% application selection)**. Strong in **REST APIs**, **Git**-based workflows, secure persistence, and service health monitoring.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Go, SQL, Dart

Development: Node.js, Next.js, Flutter, REST APIs, WebSockets

Systems & Tools: Git, Docker, CI/CD, SQLite, JSON, Observability, Secure Storage

EXPERIENCE

Google Summer of Code

May 2026 - Present

API Dash

Remote

- Designed and implemented a production persistence layer: migrated from binary Hive to diffable **JSON** workspaces with **atomic writes** and **1s** autosave, applying secure-storage practices so credentials never enter shared or versioned files.
- Implemented **Git**-based workflows used for day-to-day collaboration: commit, push/pull, branches, restore, and field-level diffs across **7** file kinds, keeping on-disk state consistent after every mutating command.
- Designed a LAN sync protocol over **WebSockets** with QR session auth and **SHA-256** manifests, transferring only allowed workspace roots in one direction so history and secrets stay off the wire.
- Built and maintained a workflow execution engine over **REST APIs** (**6** node types): chained requests, loops, and parallel branches that merge results or fail on conflict.
- Monitored workflow health from run history and investigated failures using success rate, latency, failing nodes, and a 0–100 health score, with automated Slack and Discord reports.

Software Developer Intern

Mar 2025 - May 2026

Digia Pvt. Ltd.

Remote

- Designed and implemented a schema-driven client contract on remote **JSON** and **REST APIs**: **40+** widget types, lists, forms, and navigation without a client redeploy for layout changes.
- Integrated production **REST** payment services for **1,000+** payees and built transaction status and analytics screens used in live customer apps.
- Shipped and maintained features across **3+** customer applications, including one consumer product serving **100,000+** users.

PROJECTS

Parity | *TypeScript, Node.js, Next.js, REST, Docker*

[GitHub](#)

- Designed and implemented a service-based **Node.js** API with **REST** workflow endpoints, a confirm step before writes, and per-run logs for debugging.
- Packaged the API and Next.js client with **Docker Compose** for reproducible local runs of the full stack.

XDriven | *Flutter, Go, REST, JSON*

[GitHub](#)

- Implemented a **Go REST API** and **Flutter** client for nested page layouts: the client renders **15+** widget types and routes from the JSON contract.
- Enabled A/B-style layout experiments without a client release by composing screen and navigation variants from the same **JSON** contract that powers **15+** widget types.

EDUCATION

APJ Abdul Kalam Technical University

Bachelor of Technology in Electronics and Communication Engineering

Ghaziabad, IN

2023 – 2027

ACHIEVEMENTS

- Contributed to OpenHands, an open-source platform with **80,000+** GitHub stars.