SHUBHAM RAJ

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Skills

- **JavaScript | TypeScript | Golang | MongoDB | Mongoose | Node | Express | React | Git | Tailwind | Node | NextJs |**

Experience

Complyance (FullStack Developer)   06/2025 - CURRENT

- Leading end-to-end product development within a **microservices architecture using Encore.** With Frontend in Next.js
- **Engineered A3-compliant PDF and XLSX report generation system**, with **Puppeteer** now producing **3000+ PDFs per day**, 1 for each e-invoice filed.
- Designed & **developed a subscription & credits service to handle the scale of 100k/m credit transactions**. Integrated third-party payment service provider
- **Built configurable, multi-country forms with Tanstack Form and reports** adhering to **local compliance standards** in **Malaysia, Saudi Arabia, & the UAE**.

Complyance   (Fullstack Developer Intern)   10/2024 - 06/2025

- Contributed to the Phase 2 expansion of e-invoicing services in Malaysia, enhancing platform adaptability for new clients.
- Developed **custom views and report generation features** to support localized reporting needs.
- Collaborated cross-functional multi-stepper onboarding feature to ensure seamless and smooth onboarding.

DiceDB   (Open Source Contributor)   10/2024 - 11/2024

- **Implemented persistent command history**, allowing users to recall, reuse, and edit commands across sessions.
- Added arrow-key **navigation for intuitive command traversa**l and improved user efficiency.
- Developed **real-time inline syntax hints**, providing live command guidance and **reducing reliance on documentation**.

RealDevSquad   (Open Source Contributor)   06/2024 - 06/2025

- Designed and shipped **features for viewing server profiles, managing feature flags**, and **toggling superuser privileges**,
- Wrote design documents and **reviewed PRs and designs** to ensure efficient and consistent implementation. **Storybook setup.**

Projects

YKAVS - Yet another Key value Store   Github   Tech Stack: **Go**

- Built a **Redis-compatible key-value store in Go**, implementing the **RESP (Redis Serialization Protocol)** from scratch.
- Implemented core Redis commands **(SET, GET, DEL, EXPIRE, TTL, etc.)** with **AOF persistenc**e and **automatic key**
- Developed a streaming **RESP parser with 100% test coverage**, **supporting both plain-text and protocol-based input**.
- **Interactive CLI** with **real-time command parsing**, **response formatting**, and **dynamic TTL handling.**
- **Engineered recovery from AOF, enabling durable, fault-tolerant operation. (BGSAVE in progress)**

YAPL - A Turing Complete Interpreter   Github   Tech Stack: **Go**

- Built a complete interpreter for a custom Turing-complete language featuring lexical analysis, parsing, & AST-based execution.
- Implemented **control flow constructs (if, while, for, break)**, **scoping**, **expression evaluation**, enabling full computational expressiveness.
- **Developed a REPL and file-based** runner supporting **interactive execution** and debugging. **Comprehensive error handling** across **lexical, parse, and runtime stages** for robust feedback and reliability.

Infinite Draw Github   Tech Stack: **React.js, TypeScript, Redux Toolkit, HTML Canvas, Tailwind**

- Built an **infinite canvas drawing** app using **React, TypeScript, and Redux Toolki**t for efficient state management.
- Implemented **zooming, panning, element movement, and property editing**, enabling smooth and intuitive canvas interactions.

Compliance Github   Tech Stack: **NextJS, Typescript, Zod, TanstackTable, NextAuth context Api, MongoDB**

- Implemented **role-based access** control with **NextAuth authentication,** securing access for Employees, Managers, and Admins.
- Developed **transaction dashboards** with **filters, logging, approvals,** & **CSV exports**, **streamlined submission and audit workflows.**

Education

- **BCOM honors**   Delhi University | Guru Gobind Singh College of Commerce