

PROTIK DEV

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PROFILE

Software Engineer with 4+ years building production web applications end to end, from frontend interfaces in React and Next.js through backend services in Node.js, TypeScript, and Go. Comfortable owning features across the entire stack: database schema design, REST API development, third-party service integration, and rendering strategy on the frontend. Experienced leading small teams, conducting code reviews, and driving architectural decisions across client and product work.

SKILLS

Languages: TypeScript, JavaScript, SQL, Golang, HTML5, CSS3

Frameworks: Next.js (App Router, SSR, ISR, SSG, Server Components, Streaming), React.js, Node.js, Express.js

State Management: Context API, Zustand, React Query

Frontend: Tailwind CSS, ShadcnUI, styled-components, Bootstrap, SASS, Framer Motion

Databases: PostgreSQL, MongoDB, MySQL, SQLite, Drizzle ORM, Mongoose, Redis

Technologies: Docker, CI/CD Pipelines, Firebase, Vercel, Appwrite, Convex, AWS (familiar)

Tools: Git, GitHub, VS Code, Postman, Figma, Linear

Fundamentals: REST API design and integration, database schema design, distributed backend systems, async job processing, structured logging and observability, third-party service integration, LLM API integration, testing with Jest, Vitest, and React Testing Library, SEO Optimization, Web Performance, Responsive Design, Accessibility, Cross-browser Compatibility, GraphQL (learning)

Soft Skills: Communication, Ownership, Leadership, Mentoring, Collaboration, Analytical Thinking, Friendly & Approachable

PROFESSIONAL EXPERIENCE

[Devspace](#)

March 2026 – Present

Software Engineer

- Build full-stack features in React and TypeScript on top of an agentic AI pipeline, integrating with Mastra AI, Convex, and the Vercel AI SDK.
- Built a dynamic tool registry so agent tools are stored in the database and discovered at runtime instead of hardcoded.
- Integrated Claude Code into the agentic pipeline as part of the daily development workflow.
- Contributed to CI/CD pipeline configuration and deployment automation.
- **Tech:** React, TypeScript, Convex, Vercel AI SDK, Github Actions

[Osilion](#)

Jul 2025 – Feb 2026

Full-Stack Engineer

- Served as one of the primary engineers on an internal productivity tool for a client, contributing to improvement in employee productivity.
- Mentored a junior developer, conducting regular code reviews and providing architectural guidance.
- Worked on an intelligent recruitment platform, contributing to technical architecture decisions and component design patterns.
- Built full-stack features using SSR for dynamic data and ISR/SSG for static surfaces; implemented SEO metadata, Open Graph tags, and the Next.js Metadata API. Used Zustand for cross-component state management.
- Worked with the Appfarm low-code platform for rapid development.
- **Tech:** Next.js, TypeScript, MySQL, Azure, Tailwind CSS, ShadcnUI, Tanstack Query, Zustand

Hone

Aug 2025 – Sep 2025

Frontend Engineer

- Owned the review and download pages end to end; found and fixed a responsive layout issue on smaller screens using a CSS grid-based auto-fit column pattern, validated through manual cross-device testing.
- Identified and fixed a keyboard focus visibility issue on interactive elements, validated with manual keyboard navigation testing.
- Improved code splitting and lazy loading to cut initial load weight.
- **Tech:** React, TypeScript, Tailwind CSS, ShadcnUI

Hello World Communications

Sep 2024 – Jul 2025

Full-Stack Engineer

- Led the whole development flow end to end, conducted code reviews, and made key architectural decisions across multiple concurrent client projects
- Reduced client closing time by roughly 50% through better scoping and delivery alignment between client requirements and the development team
- Built and maintained backend APIs and integrated third-party services, including the SSLCommerz payment gateway and WebSocket-based real-time features.
- Delivered projects using SSR for real-time data pages and ISR/SSG for marketing surfaces.
- Implemented SEO optimization including structured metadata, sitemaps, and Lighthouse performance tuning.
- **Tech:** Next.js, TypeScript, Drizzle ORM, Appwrite, Firebase, Docker, Zustand

Bilsida

Oct 2023 – Aug 2024

Full-Stack Engineer

- Built a Swedish car marketplace from scratch across the full stack, which went on to attract two of Sweden's largest car dealers.
- Mentored a junior developer and handled backend logic, database schema design, image optimization, and SEO across the platform.
- Used SSR, ISR, and SSG across listing and static pages depending on freshness needs.
- **Tech:** Next.js, TypeScript, Tailwind CSS, ShadcnUI, Appwrite, Docker, Context API

Fiverr

Jul 2021 – Oct 2023

Freelance Full-Stack Developer

- Delivered full-stack web applications and APIs for 20+ clients, covering frontend, backend, and deployment.

FRONTEND & FULL-STACK PROJECTS

Narrative Guard [Live](#) | [Source](#)

- Workspace-based brand governance platform with a three-tier role model (owner/admin/member) enforced server-side and per-brand RAG namespaces for workspace isolation.
- Built the audit flow end to end: score, verdict, findings, and an AI rewrite surfaced through a responsive Next.js UI, with invite tokens stored as hashes and scheduled Convex actions handling async audit processing.
- Covered with tests using Vitest and React Testing Library.
- **Tech:** Next.js, TypeScript, Convex, Convex Auth, Google Gemini, RAG, shadcn/ui, Vitest, React Testing Library

Roadmap App [Live](#) | [Source](#)

- Full-stack app with SSR, authentication, a REST API, and upvoting and commenting features.
- Covered with tests using Jest and React Testing Library.
- **Tech:** Next.js, TypeScript, Drizzle ORM, PostgreSQL, Vercel, Jest, React Testing Library

Kar Communication [Live](#)

- Built an animated landing page with React Query powering dynamic content sections.
- **Tech:** Next.js, TypeScript, ShadcnUI, Tailwind CSS, Framer Motion, Firebase, React Query

HWC Landing Page [Live](#)

- Built the company's SSR landing page, focused on responsive layout and Lighthouse-optimized performance using the Next.js Metadata API.
- **Tech:** Next.js, TypeScript, ShadcnUI, Tailwind CSS, Framer Motion, Zod

Bombus [Live](#)

- Built a landing page for a Norwegian company centered on Framer Motion animation work.
- **Tech:** Next.js, TypeScript, ShadcnUI, Tailwind CSS, Framer Motion, Zod

BACKEND & SYSTEM PROJECTS

Spud [Live](#) | [Source](#)

- Built and deployed to production a Discord bot for small-team task coordination with **LLM features with Gemini**. Duplicate-task detection that blocks redundant work at claim time, and a **scope-drift detector** that diffs a git branch against its natural-language task description and pings the owner in-channel when the work strays outside what was claimed.
- Engineered a **GitHub App integration end to end** with RS256 JWT auth, short-lived installation tokens, and an app-level **Webhook Pipeline** with HMAC-SHA256 signature verification, per-project Token-Bucket **Rate Limiting**, and automatic task closure on PR merge.
- Added **AES-256-GCM Encryption** at rest for user-supplied API keys (bring-your-own-key model), a **Role-based Permission Model** (team lead vs. server admin) enforced in application code, and a typechecked, linted, 50+ test suite.
- Set up **Production Observability** - structured JSON logging shipped to Grafana Loki, plus **Synthetic Monitoring** with uptime alerting; containerized with Docker on a hosted Turso (libSQL) database.
- **Tech:** TypeScript, Bun, discord.js, GitHub Apps API, Github Actions, Gemini, Vercel AI SDK, SQLite/Turso, Grafana (Loki + Synthetic Monitoring), Docker

Result Lookup [Source](#)

- Designed and built a high-throughput exam result publishing system in Go, simulating Bangladesh's SSC result infrastructure **serving 2M results**.
- Pre-serialized JSON into Redis ahead of release time behind a publish gate flag for atomic release, with cursor-based batch seeding and count verification via SCAN before the gate flip.
- Reached ~32k RPS peak with zero errors across a 615,000 request load test, with p99 latency under 105ms at 1,000 concurrent connections, backed by a PostgreSQL fallback with connection limiting.
- Built with a two-binary architecture (cmd/api and cmd/precompute) and handler tests using miniredis.
- **Tech:** Go, PostgreSQL, Redis, pgx/v5, Docker, golang-migrate, slog

URL Health Checker [Source](#)

- Built an async job queue with a two-binary architecture (cmd/api and cmd/worker), where workers claim jobs via SELECT ... FOR UPDATE SKIP LOCKED.
- Implemented exponential backoff written directly in SQL, atomic with status updates, and a staleness threshold for stale-job recovery instead of a heartbeat, avoiding a race condition for bounded-duration jobs.
- Added graceful shutdown via signal.NotifyContext, with integration tests against real PostgreSQL and unit tests using httptest.NewServer.
- **Tech:** Go, PostgreSQL, pgx/v5, Docker, golang-migrate, slog

URL Shortener API [Live](#) | [Source](#)

- Built a per-IP token bucket rate limiter using a mutex-protected generic SafeMap, with retry-on-conflict short code generation instead of pre-checking.
- Deployed with a non-root Docker user and a multi-stage build, with integration tests against real PostgreSQL and schema loaded via //go:embed.
- Deployed on Render with managed PostgreSQL.
- **Tech:** Go, PostgreSQL, pgx/v5, Docker, golang-migrate, slog

URL Scraper [Source](#)

- Built a CLI tool using goroutines and mutex-based deduplication for concurrent URL scraping.
- **Tech:** Go

The Super Tiny Compiler [Source](#)

- Implemented a small compiler covering tokenizing, parsing, and AST transformation.
- **Tech:** Go

EDUCATION

BGC Trust University, Chattogram, Bangladesh

B.Sc. in Computer Science and Engineering