Muhammad Hurairah Mateen

Full-Stack Software Engineer

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SUMMARY

Full-Stack Software Engineer with 3 years of experience shipping production SaaS and **healthcare** platforms with **React, Next.js, Node.js and SQL**. Currently hardening security and data pipelines for a patient-facing mental health platform; previously **main developer of Stripe billing** at Napster, with a merged upstream contribution to **Microsoft Data Formulator**. Experienced in Keycloak, GCP with Terraform and Helm, and AI features.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, SQL
Frontend	React, Next.js, TanStack Query, Tailwind CSS, Material UI, Ant Design
Backend	Node.js, Bun, Hono, Express.js, Feathers.js, Drizzle ORM, Knex, REST APIs
Databases	PostgreSQL, MySQL, MongoDB, BigQuery, DuckDB
Cloud & DevOps	GCP (GKE, Cloud Run), Kubernetes, Docker, Terraform, Helm, Vercel, GitHub Actions
Auth & Payments	Keycloak, Keycloakify, Supabase Auth, Stripe (subscriptions, usage billing, checkout)
AI	Gemini API, OpenAI API, llama.cpp, structured JSON outputs
Tooling & Testing	Strapi, Listmonk, Vite, Storybook, Vitest

EXPERIENCE

Tabiat *Jul 2026 - Present*
Full Stack Developer *On-site, Islamabad*

Peridot, perinatal mental health platform | yourperidot.ca *Next.js 15, Bun, Hono, PostgreSQL, Strapi*

- Hardened auth and patient-data access, including **security audit** fixes: closed **cross-clinic data leaks** and direct-URL access to results; added **login lockout with IP checks**, a common-password blocklist, reset-link cooldowns and a **signed MFA pending cookie**; revoked tokens on logout; set security headers.
- Rebuilt the **Service Finder** for community mental health services with progressive loading, **SSR prefetch**, distance sorting and de-duplicated background hydration, plus reliable pagination, deep links and iPhone fixes.
- Main contributor to the **211 API sync job**, mapping raw directory records into stepped-care stages, symptom levels, eligibility, fees, regions and **timezone-aware hours**; these power new filters, Newfoundland and Labrador postal-code search and 211's AI-drafted service summaries.
- Restructured **EPDS (postnatal depression) and GAD-7 (anxiety) screening**: fixed infinite loading and invalid IDs, added stage pre-selection from due date and a **self-harm safety banner**, and updated results ordering, charts and next steps.
- Implemented **super-admin account controls** for providers (status, unlock, password reset, email change, MFA reset), provider notification settings, role-based route guards and reset-token handling.
- Delivered a UI consistency pass across patient, provider and public pages: unified buttons, responsive top and bottom navigation, rebranding, and refactors of results, stage, peer support and help pages.
- Created **Strapi** data export/import, moved **Listmonk** email templates into the codebase, removed unused **Ant Design** dependencies, wrote **71 new test files** and added a Vitest failure-summary reporter to CI.

Tabiat Care, COPD remote care platform | tabiat.care *Next.js, Express, MySQL*

- Fixed the COPD pathway **Action Plan** (sidebar menus, unassessed patients, backend ID mappings, date sorting), enabled action plan editing, and resolved sign-in flicker and patient-details layout issues.

Napster Corp (formerly Infinite Reality) *Mar 2024 - Dec 2025*
Software Engineer *Remote*

Client Impact and Global Identity Team *Jul 2025 - Dec 2025*

- Deployed and operated **Lightdash on GKE with Helm**, with **BigQuery** as the primary analytics data source.
- Deployed **Microsoft Data Formulator on Cloud Run with Terraform**, then wrote its **BigQuery data loader** in Python, merged upstream in PR #206: service-account or default-credential auth, dataset and table discovery, nested-field flattening and table or custom-SQL ingestion into **DuckDB**.
- Integrated **Gemini** models into internal analytics workflows for AI-assisted insights with schema-safe outputs.

- Set up centralized identity and user management on **Keycloak** (realms, client roles, user segmentation, IdP integrations) shared across multiple applications.
- Implemented **email OTP verification** and a custom-branded authentication UI with **Keycloakify and React**.

iR Studio Dashboard Team *Mar 2024 - Jul 2025*

- Delivered core SaaS dashboard features, including user management, **role-based access control**, configuration flows, custom domains and project setup, within a distributed agile team.
- Main developer of the platform's **Stripe billing module**: designed the architecture with **monthly, quarterly and annual** base plans and a **free trial** that converts to paid billing automatically when it ends.
- Engineered a **dual-subscription model** pairing each base plan with a separate **metered monthly usage subscription**, backed by a SQL stored procedure that counts each account's website visits.
- Developed the backend services for plans, subscriptions, payment methods, invoices and coupons, plus **Stripe webhook** handling (checkout completed, subscription updated and deleted), covered by **Vitest** tests.
- Designed and built a **custom checkout page with coupon support** and Google Places address autocomplete, plus a **billing management area** for subscriptions, reactivation, payment methods and branded invoices.
- Built the **multi-step onboarding flow**: Google/Apple OAuth and magic-link sign-up, plan selection with trial periods, customer and payment details with coupons, and subscription activation.
- Added a **user-login audit service** recording each SSO and magic-link sign-in with user agent and IP address.
- Extended the shared **Tailwind component library** (Autocomplete, Select, Input, Button, Radio) with **Storybook** stories, and added a **Google Analytics** logger that admins enable from the admin panel.
- Designed relational schema changes (unique constraints, project relations for locations and instances) and wrote **SQL** queries behind data-driven dashboard screens.

Ethereal Engine *Jun 2023 - Feb 2024*

Software Engineer *Remote*

- Shipped SPA dashboard features for **Ethereal Engine Studio**, including project and environment management, settings and onboarding flows.
- Implemented **admin functionality** for users, permissions and platform configuration.
- Migrated **30+ backend services** (authentication, login tokens, invites, instances, locations, messaging, scopes, permissions and more) to **Feathers 5** with typed schemas and **Knex**.
- Laid the groundwork for **Stripe billing** by enabling webhook signature verification in the core server and adding a shared BaseService class.

PROJECTS

ConceptForge AI | conceptforge-ai.vercel.app *Next.js 15, Supabase, Gemini API, OpenAI API*

- AI architectural concept ideation tool with a **dual-provider LLM engine** (Gemini and OpenAI), server-side orchestration and bring-your-own-key support.
- Enforced **strict JSON schema outputs** for render-safe results, with **Supabase Auth and PostgreSQL** for saved concept history and one-click PDF export.

TaskLens AI | github.com/hurairahmateen/tasklens-ai *Next.js, llama.cpp (local inference)*

- Offline MVP that turns a single sentence into a time-boxed execution plan using a local **llama.cpp** server and validated **JSON contracts**.

EDUCATION

COMSATS University Islamabad *2023*

Bachelor of Science in Software Engineering *CGPA: 3.04 / 4.00*

- **Final Year Project:** SkinDetect, an automated skin disease recognition system using CNN and SVM models.