# Saihaj Bath

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## PROFESSIONAL SUMMARY

Software engineer focused on building and shipping production systems. Built a Gmail-integrated SaaS product (Python on Google Cloud Run and Firestore) and full-stack web apps (Next.js, React, and TypeScript on PostgreSQL), and have integrated systems across Salesforce, BigQuery, GraphQL, and Google Cloud. Solid SQL and relational database background. Comfortable owning technical decisions and shipping through a code-reviewed, CI-gated workflow. Holds a Government of Canada Level II (Secret) security clearance. Completed a BSc in Computer Science at the University of Toronto in 2026.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, SQL, Bash, Java, C/C++

**Databases & Data:** PostgreSQL, Google BigQuery, Firestore, SOQL (Salesforce), Prisma ORM, relational schema design, vector databases (LLM retrieval), data conversion and backfill

**Cloud & Platform:** Google Cloud (Cloud Run, Firestore, KMS, Cloud Monitoring), AWS (EC2, S3, IAM), Docker and Docker Compose, Terraform, UNIX/Linux administration

**Web & Application:** Next.js, React, Node.js, Chrome Extensions (Manifest V3, WXT), Google Apps Script (HtmlService), REST and GraphQL APIs, NextAuth, OAuth/OIDC, Zod

**Security & Reliability:** OAuth/OIDC auth and token lifecycle, KMS envelope encryption, role-based access control, rate limiting, secure headers (Talisman), OpenTelemetry tracing, error reporting

**Integration & Automation:** n8n, Salesforce (Flows, SOQL), Slack and Gmail APIs, LLM and AI automation, webhooks

**Practices:** System design and architecture, code review, CI/CD (GitHub Actions, ruff/mypy/pytest gates), unit testing, technical documentation, Agile/Scrum

## PROFESSIONAL EXPERIENCE

### Contract Software Engineer | Zencargo

*Jul 2025 – Present · London, UK (Remote from Canada)*

- Designed and built Zenbox, a shared inbox tool built into Gmail that replaced the company's paid Hiver subscription. Owned it from early discovery and architecture through to production. Built the backend in TypeScript (Hono and tRPC) on Google Cloud Run with Firestore — later re-architected in Python — with OAuth/OIDC auth and a Chrome extension (Manifest V3, WXT) on the front end.
- Hardened it for production with KMS envelope encryption for secrets, bearer-token middleware that enforces per-inbox roles, a CORS allowlist with secure headers, tiered rate limiting, and redaction of sensitive data in logs.
- Built the reliability layer: OpenTelemetry tracing, Cloud Monitoring metrics, and error reporting, plus a parallel Gmail sync engine with history-API pagination. Tracked down and fixed an invalid_grant token-expiry bug that had quietly stalled inbox syncing.
- Shipped the work through code review with senior engineers and stacked pull requests behind CI gates (ruff, mypy, pytest), working with the infrastructure team on Terraform-managed GCP environments.
- Designed and shipped Luca Scout, a config-driven supplier-chasing pipeline (n8n, BigQuery SQL with CTEs and deduplication, GraphQL mutations, and Salesforce, Gmail, and Slack integrations), along with a four-page Google Apps Script dashboard (HtmlService and Chart.js). It runs in production for several enterprise customers, with backfill routines that repaired historical records and lost no data.

- Owned design, testing, and production maintenance on a fully remote, async team, and wrote the technical specs and architecture docs.

**Software Engineering Intern (Paid) | LifeMantra**
*2025 · Remote*

- Built a full-stack registration app in Next.js, React, and TypeScript on PostgreSQL with Prisma. Designed the relational schema (users, accounts, sessions, verification tokens) and the authentication flows with NextAuth.
- Handled credentials securely with bcrypt, validated forms with Zod and React Hook Form, and added Google OAuth sign-in. Also built a separate login front end in Vite and React with a passport.js backend.
- Owned the architecture across the stack, from the database models to the components and middleware.

**Technical Support Specialist | Neuteck Technologies**
*Oct 2021 – May 2025 · Ontario, Canada*

- Handled first-line support for proprietary software, diagnosing and fixing software, connectivity, and configuration problems with little supervision.
- Wrote monthly trend reports and built a knowledge base of common issues, which cut repeat tickets by 25%.
- Set up VPN protocols (WireGuard, OpenVPN) and managed AWS services (EC2, S3, IAM), and worked in Agile sprints with Jira.

**IT Infrastructure & Systems Manager | Fisher Dental, Nepean Dental & Ottawa Dental Centre**
*Oct 2023 – May 2025 · Ottawa, ON*

- Ran the infrastructure across 3 sites for more than 30 staff. Built a custom WireGuard VPN failover in Bash on top of the UniFi Network API that recovers in under 30 seconds, and it has handled real outages in production.
- Managed user accounts, permissions, and access across Windows and macOS, and moved everyone to Microsoft 365 without losing any data in the migration.

**Service Desk Specialist | Gosolution Management**
*Jan 2020 – Aug 2021 · Remote*

- Fixed hardware, software, and network problems on Windows Server, macOS, and Active Directory, and wrote up recurring issues into standard procedures that sped up resolution.

## SELECTED PROJECTS

- **AI Sales CoPilot: Real-Time Meeting Assistant (Chrome Extension):** Built a Manifest V3 Chrome extension (TypeScript and JavaScript) that grabs live Google Meet audio through a service worker, offscreen document, and content scripts, streams it to a real-time transcription API (Deepgram), and shows live assistance in a side panel. Shipped several versions.
- **Self-Hosted Infrastructure & Automation Lab:** Run more than 20 Docker containers on TrueNAS Scale (Pi-Hole for DNS analytics, Plex, Immich, and monitoring), secured behind a Cloudflare Tunnel with automatic updates. Wrote the automation in Bash and Google Apps Script and put everything behind one monitoring dashboard.

## EDUCATION & CERTIFICATIONS

**BSc Computer Science** | University of Toronto | Sep 2022 – Apr 2026
*Coursework:* Software Design, Data Structures and Analysis, Theory of Computation, Computer Organization
**CompTIA A+** | CompTIA

**Government of Canada, Level II (Secret) Security Clearance**