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Work Experience

Milieu Insights	Singapore
Solution Architect	June 2025 – Dec 2025
<ul style="list-style-type: none">Engaged with external clients in validating and engineering technical solutions such as SCIM and data ingestion integrations.Accelerated internal service request turnaround by creating repeatable script pipelines and self-serve tooling with Bun.Built Milieu Mind using Gemini with NotebookLLM to increase visibility on our security posture, feature availability for Sales and Research.	
WeightWatchers	California, United States
Full Stack Software Engineer	March 2023 – August 2024
<ul style="list-style-type: none">Led front-end development integrating WW Clinic into native mobile apps, funneling customers to new clinic experience.Created a KYC system for all members, aligning the company with compliance requirements, in preparation of an acquisition.Developed key features for Bedrock, our internal platform serving 200+ staff, including in-system faxing, medication delivery tracking and third-party API integration using TypeScript and Node.js.Contributed major features to Sequence, our member-facing web app, scaling to 100k users — including long-term contract subscriptions, Care Team feedback and refill requests in React.Piloted RD Insurance Billing, a brand-new product offering nutrition therapy visits for all members, which is one of three core initiatives to improve our members' experience and diversify our revenue streams.Other core responsibilities include subscription management with Stripe, A/B test visualization with Amplitude, building internal tools with Retool, UI testing with React Testing Library, triaging and monitoring errors with Rollbar and Datadog.	

Armorblox	California, United States
Full Stack Software Engineer	June 2021 – March 2023
<ul style="list-style-type: none">Member of the Data Protection team, responsible for mitigating email data leaks on the Armorblox platform. Deployed solutions include file matching and source code detection, resulting in approximately 25% reduction in BEC (Business Email Compromise) attacks.Designed and implemented front-end components and services for RBAC (Role-Based Access Control) across all business tenants, with permissioned routing and guard flags across the Armorblox platform.Created ML Workbench, accelerating our AI team's capability in triaging emails based on their threat profiles, replacing legacy Excel-only workflows used for tracking threats.Developed the Scheduled Reports service, generating threat reports for customer organizations using Next.js and Gotenberg. Collaborated with the Product and Platform teams on data templates and building a scalable solution.Responsible for CMP, a DevOps management tool for creating and removing Kubernetes clusters and Kraken, an email vector attack simulation tool, both developed using React.	

Projects

catalleanya

- catalleanya** is a personal data sovereignty project aimed at replacing third-party services with self-hosted solutions.

memoka

- memoka** manages your awareness of existence by means conscious note taking.

Education

National University of Singapore	August 2017 – May 2021
<ul style="list-style-type: none">Bachelor of Computing (Honours) in Computer Science — CGPA: 4.02.Specialization in Network and Distributed Systems.	

Skills and Interests

- Core Languages: JavaScript, TypeScript, Dart (auxiliary), Python (auxiliary).
- Front-end: React ecosystem, Flutter, HTML, CSS.
- Back-end and Infrastructure: Node.js, PostgreSQL, MongoDB, GraphQL, tRPC, Docker, Caddy, AWS, GCP.
- Systems: Linux administration (systemd, bash, SSH, cron).
- Interests: Self-hosted infrastructure, AI-assisted development, Linux ecosystems, open-source software.