

Andrew Levine

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Full Stack Engineer proficient at building well structured, efficient, maintainable code. Loves to learn new technologies, pair with others, and is passionate about the work he does.

EXPERIENCE

RealPic *Founder*

New York, NY 2026-Present

Swift, Secure Enclave, Image Processing, Cloudflare, Postgres, Prisma, Express, Node, Next.js, Trigger

- Founded and shipped a production product solo, end-to-end. Took RealPic from database schema → API → client → live on the App Store as the only engineer, making every architectural and product call along the way
- Owned a TypeScript backend using Node/Express/Zod API with Prisma + Postgres, async job processing on Trigger.dev, and edge logic + rate limiting on Cloudflare Workers, with a Next.js marketing page, and React internal admin application
- Built secure and robust image pipelining handling image uploads with latent cellular networks, app attestation and assertion flows, depth processing and hash mapping, along with a photo worker for image serving and caching
- Performed user interviews and held focus groups to determine product market fit and focus the app for their use cases

Mercury *Senior Software Engineer II*

New York, NY 2023-Present

Haskell, Yesod, Esquelito, Persistent, Nix, Hydra, SQL, Query Optimization, Mjml, Finch, Temporal

- Redesigned and implemented login flows to allow for multiple emails for login per user
- Redesigned approval rules to allow for features such as named approvers, role based, department, and manager approvals
- Developed authorization policy abstraction to centralize authorization decisions throughout backend service and led the migration of 1000s of endpoints and the UI to use these policies across 20 teams at Mercury
- Designed and led a team of 4 engineers to develop an integration with HR systems using an API called Finch
- Implemented Temporal asynchronous tasks to sync HR data with Mercury's database to allow for reliable execution and eventual consistency
- Created more granular permissions to allow users to customize the access control of other users in their organizations
- Developed a multi-org write api for integrating with Slack to give users a secure way to perform write actions from Slack
- Developed feature to pull recurring bank transactions from external accounts and set up those transactions in Mercury

Chapter *Software Engineer*

New York, NY 2022-2023

Typescript, Prisma, SQL, Tailwind Css, NextJs, Pulumi, Pub Sub, Dato CMS, GCP & Deployments, Domain Modeling, Postgres, Foundry, Hightouch, Twilio, Express, Zapier, GraphQL, Playwright, Relay

- Developed, tested, and deployed publisher subscriber system to sync data between critical 3rd party systems and Postgres
- Designed and developed dead lettering and monitoring for pub sub systems to assist with disaster recovery
- Created and integrated with content management systems to allow non engineers to build websites and workflows
- Designed routing system to create reusable NextJS workflows for marketing to new to medicare customers
- Managed deployments in Google Cloud Projects using infrastructure as code with Pulumi
- Used domain modeling concepts to develop streamlined and scalable workflows for Chapter's sales team
- Used Prisma to develop data models, data access objects, and run data migrations in Postgres

Commure *Software Engineer Level 2*

Cambridge, MA 2020 - 2022

Rust, Java, JavaScript, Typescript, React, Kong, Nginx, Kubernetes, Docker, XACML, OPA, Rego, Lua, System Deployment, Platform Architecture, Network Security, Git, FHIR standard, Postgres, GraphQL, HTML, CSS

- Developed, tested, and deployed a React application to 8 hospitals to control user access on Commure's platform
- Designed, developed, and deployed front end caching system with a search index in order to allow applications to perform search operations offline or before the network response hits. Caching system also used history queries to validate the data
- Designed and implemented authorization and authentication flow for the platform's api gateway using Kong, OPA, Lua Plugins, and Okta. The flow integrated with both SAML and OIDC systems
- Managed deployments of api gateway and multiple services using kubernetes, docker, tls, and general secret/cert management

EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences
Bachelor of Science in Engineering

Philadelphia, PA
2016 - 2020

Interests: Performing Stand Up Comedy, Indoor Rock Climbing, Scuba Diving