

# Kevin Yeh

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## WORK EXPERIENCE

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### NAVA PBC | Principal Engineering Lead

Feb. 2023 - present (1.5 years)

- Led engineering for multiple FHIR API teams within Medicare's Data Analytics and Strategy Group (DASG). Established organization-wide engineering practices and collaborated with leadership to drive team roadmaps, clarify feature lifecycle processes from ideation to planning, prioritization, and production, and improve operations and customer engagement.
- Led high-visibility initiatives to bring the Data at the Point of Care (DPC) program from pilot to production, building alignment between multiple program stakeholders, leads, and engineers to modernize existing **Dropwizard** API microservices and build a new healthcare provider portal using **Ruby on Rails** with remote identity proofing and automated provider verification.
- Drove initiatives to improve consistency, reuse, automation, and collaboration across four teams managing FHIR API systems and data pipelines using **Go** and **Lambda**.
- Provided infrastructure guidance for Nava platform initiatives and other contracts, and contributed engineering guidance, templates and resources back to the wider Nava organization.

### NAVA PBC | Senior Engineering Lead

Jan. 2020 - Feb. 2023 (3 years)

- Led infrastructure engineering for the MA Department of Paid Family and Medical Leave (DFML). Developed relationships with stakeholders across multiple executive offices and contracting agencies in the state of Massachusetts to stand up the new agency and program.
- Established groundwork for a new **AWS** account and environments; built CI/CD standards for teams using **Github Actions**; designed integrations across multiple internal eligibility, payment, and claims processing systems; and built an operational model for the Claimant & Employer Portal and API applications, including release management, monitoring and alerting, security and compliance, and incident response processes.
- Drove the buildout of two new teams (the Infrastructure and Operational Support teams) including: hiring and onboarding for 9 engineers; development of team boundaries and responsibilities; prioritization of roadmaps; and operationalization of day-to-day processes.
- Led full-stack **Next.js** and **Flask** feature dev to digitize the Appeals process, improve leave admin tooling for employers, and drive efficiency improvements for the Contact Center and mailroom.

### NAVA PBC | Tech Lead

Mar. 2018 - Dec. 2019 (2 years)

- Rearchitected the Quality Payment Program's (QPP's) data analysis pipelines using **Spark/Scala** as an embedded technical and policy implementation expert on an external contracting team.
- Led migration of application and ad-hoc task infrastructure to **ECS Fargate**, including CI/CD pipelines, developer tooling, and operational processes.
- Worked closely with stakeholders and external teams to build in-house expertise in modern cloud infrastructure and replicate **terraform** and Fargate patterns across new and pre-existing projects.
- Pushed for maintenance and performance improvements to **Jenkins** CI/CD and build processes, including containerization of master/workers to simplify plugin & version upgrades and improve worker autoscaling.

### KICKSTARTER | Payments Lead

Jan. 2017 - Feb. 2018 (1 year)

- Drove clarity and reliability improvements for on-demand payments architecture using: type contracts; data-remodeling for data integrity and usability; streamlined transaction and ID verification flows; explicit separations of data/logic concerns and reduced side-effects; improved API consistency and resiliency; and more visibility and accountability for test coverage and style guidelines.
- Led efforts to improve payments support flows for Support+Integrity+Data+Product teams, improving cross-training, documentation, diagrams, & triage procedures and surfacing better paper trails in data, dashboards and admin tools for transactions, requests, and card authorizations.
- Developed the payments architecture for Drip, a new site for monthly and ad-hoc subscriptions. Worked closely with Stripe and Finance to build an observable and financially-accountable system with an emphasis on designing mixins for easy extensibility; ability to migrate legacy payments systems; and future microservice extraction.

- Implemented creator watchlist and sanction checks, communicating heavily with third-party vendors and project stakeholders on project status, roadblocks, and product and legal questions regarding kanji translation reliability and support.
- Supported and led multiple upgrades and launches, including: cross-team Rails 4.2 & 5.0 upgrades; Japan launch, handling non-decimal currencies and strict JP identity and compliance requirements; and HD video with adaptive streaming.

#### KICKSTARTER | Platform/Payments Engineer

May 2016 – Dec. 2016 (.5 years)

- Collaborated closely with Devops to develop a stable, reliable, and observable microservice infrastructure and reusable application platform using **Dropwizard** & **Kinesis** running on Docker via **ECS** + **Cloudformation** and monitored with **Telegraf/InfluxDB/Grafana** and **ELK**. Built and open-sourced an InfluxDB Dropwizard metrics integration library.
- Designed and built a low-latency recommendations service. Provided close mentorship for Data team to build and deploy a new Latent Semantic Index model, robust blending/weighting pipelines, and a followup classifications service for customer support tickets and message spam. Helped design and support tracking and experiments.

## ADDITIONAL EXPERIENCE

#### SPACE TYPE | Studio Partner, Creative and Technical Director

2020 - present

- Led design and development of web-based generative design tools, interactive typographic experiences, and full-stack digital platforms for clients using a variety of frameworks and content management systems, including **Next.js**, **Webflow**, **Contentful**, **Monday CRM**, **Stripe**, **Stream**, and **p5.js**.
- Led and collaborated on courses, workshops, and talks for computational typography and design at The Cooper Union, MIT Media Lab, and multiple conferences in the U.S., Mexico, and France.

**MONGODB** – Built and maintained the MongoDB **Rust** 1.0 driver, presenting at Rust NYC. 2015

**CEREBRI** – Built the Austin211 pilot Android app, empowering call centers with IBM Watson by connecting users to social services. Partnered with United Way and seed-funded by IBM. 2015

**GEOTRELLIS** – Integrated **Spark** + **Cassandra** support into a high-performance geospatial data processing engine and fixed issues in the Scala framework library. 2015

**AMAZON** – Integrated DynamoDB support into RDS backend; designed and developed the database and framework for non-invasive protection and restoration of deleted RDS instances. 2014

**BLASTRO NETWORKS** – Updated API, parsers, bitmap caching, and networking for performance and portability to smartphones, tablets, and connected TV; rebuilt the Android UI/UX using modern libraries; developed custom interactive components and implemented synced accounts, playlists, video ads, and social integrations. 2014

## EDUCATION

2012 – 2016 **University of Texas at Austin**

G.P.A. 3.97 | Major 4.0 | B.S. / M.S. Computer Science | Film Studies Minor

COURSEWORK *Autonomous Robots, Robot Learning from Demonstration and Interaction, NLP, Wireless/Sensor Networking, Computer Vision and 3D Reconstruction, Physical Simulation and Animation for Computer Graphics*