

KHINSHAN KHAN

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Skills

Languages Typescript, Javascript, Golang, Python, HTML, CSS
Frameworks React.js, Next.js, Gatsby.js, Chakra UI, Material UI, Express.js, Flask
Environments AWS, Netlify, Digital Ocean, tRPC, GraphQL, Rest, DynamoDB, PostgreSQL

Work Experience

Kiip, PBC

SENIOR SOFTWARE ENGINEER

Brooklyn, New York

Dec. 2022-Present

FOUNDING SOFTWARE ENGINEER

Dec. 2021-Dec. 2022

[kiip.io](#) and [kiip.co](#) (AWS Lambda, S3, DynamoDB, Chime, GraphQL, Next.js, MobX, Javascript, Typescript)

Kiip allows people to store digital copies of vital documents and share them in interactive data rooms when applying for services offered by the city or other public benefits and service providers, easing any potential times of crisis or extenuating circumstances.

- Designed robust and complex **React components** ranging from skeletal layout to chat messaging to meet **WCAG accessibility standards**
- Created a service for users to securely upload documents with 'zero knowledge' of its contents until a user with proper rights accesses it
- Established various **authorization models** for individual users to add assistants to work on their behalf to interact with representatives of organizations as well as varying levels of representatives of an organization

Two Bulls

SOFTWARE ENGINEER

Brooklyn, New York

Jan. 2020-Jan. 2022

Port Management Tool (AWS Lambda, S3, DynamoDB, PostgreSQL, Golang, Typescript, React, Leaflet, Material UI, Node.js)

Working with [Seacor Holdings](#), several of their ports now have ship detection and corresponding port events handled and searchable automatically via this tool and added to billing for [Helm Operations](#) orders for cross-examination and detailed view of ships' paths.

- Led cooperative agreements with data providers to create new APIs and selectively clean noise, handling **1,000,000+ daily** AIS messages
- Implemented **scalable and resilient microservice architecture** (lambdas, databases (*DynamoDB* → *PostgreSQL*), S3, VPSs)
- Spearheaded aspects of the 'complex event processing' algorithm for port events and port calls with pipelines to smoothly incorporate new categorizations of vessels and geofencing which will affect port events used for billing
- Worked on client product for port call search and display summary with an interactive vessel path visualization
- Initiated an internal algorithm visualization playback, playing around **100,000 records as a smooth animation** at a time

Mailchimp Firebase Integration (Typescript, Firebase, GCP, Mailchimp)

Syncs user data with a Mailchimp audience for sending personalized email marketing campaigns. It was teased at Google I/O 2021 and presented at Google I/O 2022. The extension was [open sourced](#) by [Mailchimp](#).

- Headed initial development for **alpha Firebase extension** and tests (unit, integration, E2E) with **GitHub Actions**
- Developed Firebase extension to bidirectionally synchronize with Mailchimp tags, audiences, and events for personalized marketing

Notable Projects

Keys (Golang, PostgreSQL, Next.js, Chakra UI)

[GitHub](#)

Keep All Your Stuff: Managed Documents — Application and API service to securely upload and automatically analyze and tag documents for insights such as similarity percentage to other documents and categorization as well as provide an optimal search experience (in progress)

Political Atlas (React, Material UI, D3.js Python, Flask)

[GitHub](#)

Map To Politics — **data visualization** for textual (IBM Watson) versus vocal tone analysis of presidential speeches (DeepAffects)

- Managed the architecting, coding, and learning schedule for team of **3 new programmers** at a 2 week agile cadence
- Explored **webhooks, cronjobs, restful design, accessible design**, and securing VPSs with the team

Miscellaneous

Ep 1: Authentication and Authorization, Guest

[Spotify Podcast Episode](#)

Discussion about Authentication and Authorization including **Federated Login, SSO, JWTs**, and best practices.

TPH Tech Spotlight: What is Emacs?, Spotlight Leader

[Posterity Write-up](#)

Introduce and guide programmers to editors with a focus on emacs, answering questions ranging from lisp to packages to window management.

Interests

[uptogood.dev/blog](#)

Blogging, cooking, linguistics, mythology, puzzles, fallacies, automation

Education

Hunter College, The City University of New York BACHELOR IN COMPUTER SCIENCE, MINOR IN MATHEMATICS	<i>New York, NY</i>
Stuyvesant High School ADVANCED REGENTS DIPLOMA WITH HONORS	<i>New York, NY</i>