¶ (917) 705-9292 | ▼ shan@uptogood.dev | ★ www.uptogood.dev | ☑ khinshankhan | 匝 khinshankhan

# Work Experience \_\_\_\_\_

Kiip, PBC Brooklyn, New York

SENIOR SOFTWARE ENGINEER

Dec. 2022-Present

FOUNDING SOFTWARE ENGINEER

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.

- Setup engineering foundations ranging from separate amplify environments to DNS management to GitHub Actions to brown bags
- Designed scalable and resuable **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
- · Lead demos for stakeholders and investors, distilling technical information to intuitive formats such as diagrams, analogies, simplified personas

Two BullsBrooklyn, New YorkSOFTWARE ENGINEERJan. 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, as well as agreeable **TTL policies** for caching vessel particulars with custom round robin scheduled refetching data
- 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**

Emoji Helper (Typescript, Mdast, Hast, Pnpm, Changeset)

GitHub

Dec. 2021-Dec. 2022

Monorepo of packages published on NPM for custom emoji manipulation and utility, designed framework agnostic.

- emoji-helper-core: allows one to define a strongly typed map of emoji data to use in one's project from any source (Discord, Slack, GitHub)
- emoji-helper-remark: remark markdown transformer to replace: emoji: in text with jsx
- emoji-helper-pack-github: emoji pack using GitHub's assets

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 Tailwind?, Spotlight Leader

Help programmers learn TailwindCSS, whether they've written 10 lines of code or have been coding and programming for 10 years.

## Education

### **Hunter College, The City University of New York**

New York, NY

BACHELOR IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

#### **Stuyvesant High School**

New York, NY

ADVANCED REGENTS DIPLOMA WITH HONORS