KHINSHAN **KHAN**

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Work Experience

Kiip, PBC   *Brooklyn, New York*
Founding Software Engineer   *Dec. 2021-Present*

kiip.io and kiip.co *(AWS Lambda, S3, DynamoDB, Chime, Next.js, MobX, Javascript, Typescript)*

- Led development for privileged actions (eg promotion of representatives and deletion of user artifacts) via scripts and admin UI
- 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   *Brooklyn, New York*
Software Engineer   *Jan. 2020-Jan. 2022*

Seacor *(AWS Lambda, S3, DynamoDB, PostgreSQL, Golang, React, Typescript, Leaflet)*

- Led investigation with data providers to create APIs for AIS messages and selectively clean noise by both data provider and application
- Implemented scalable and resilient microservice architecture (lambdas, databases (*DynamoDB →PostgreSQL*), S3, VPSs) for the application
- 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 for developers and privileged access

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

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

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

Notable Projects

Kays *(Golang, PostgreSQL, Next.js, Chakra UI)*   *https://github.com/khinshankhan/kays*

Keep **A**ll **Y**our **S**tuff: Managed Documents — Application and API service to securely upload and automagically 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)*   *https://github.com/khinshankhan/political-atlas*

Map To Politics — data visualization via a web application for textual versus vocal tone analysis of presidential speeches

- Managed the architecting, coding, and learning schedule for team of 4 new programmers at a 2 week agile cadence
- Explored webhooks, cronjobs, restful design, accessible design, and securing VPSs with the team

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

Extracurricular Activity

Ep 1: Authentication and Authorization , Guest   *Spotify Link*

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