

KHINSHAN KHAN

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Work Experience

Kiip, PBC

Brooklyn, New York

FOUNDING SOFTWARE ENGINEER

Dec. 2021-Present

- Led development for privileged actions (eg promotion of representatives and deletion of user artifacts) via scripts and admin UI
- Implemented designs with React components in *Next.js* and *AWS Amplify* to meet WCAG accessibility standards in an agile team
- Implemented a service for users to securely upload documents with 'zero knowledge' of its contents until a user with proper rights accesses it
- Implemented models for individual users to add assistants to work on their behalf to interact with representatives of organizations
- Implemented models for varying levels of representatives of an organization
- Implemented chat feature between individual users, assistants, and representatives of an organization

Two Bulls

Brooklyn, New York

SOFTWARE ENGINEER

Jan. 2020-Jan. 2022

Seacor (*AWS Lambda, S3, Dynamo, Postgres, 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
- Led 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
- Created 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
- Led 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 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

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

- Led 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.