

# Karun Sekhar

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## Education

### Stevens Institute of Technology

*Master of Engineering in Systems Engineering*

Graduated May 2021

*Hoboken, NJ*

### Stevens Institute of Technology

*Bachelor of Engineering in Software Engineering*

Graduated May 2020

*Hoboken, NJ*

### Certificates

*Azure AZ-900 Certified*

## Technical Skills

**Technologies:** Node.js, React, Remix, Next.js, Gatsby, Vite, Rollup, Redux, Saga, TailwindCSS, Angular, Flask, Lit, WebComponents, Style Dictionary, Material UI

**Languages:** Python, Javascript/Typescript, SQL, HTML/CSS

**Developer Tools:** AWS, Docker, MySQL, GraphQL, MongoDB, Terraform, Azure AI, Azure Storage, Git, Jira, Firebase

## Experience

### Slalom

New York, NY

*Consultant*

*January 2022 – Current*

- Designed and implemented a Next.js application for AI document translation leveraging AWS CDK for resource provisioning to translate hundreds of public PDFs and Word Docs into 9 standard languages.
- Develop and maintain a UI Code Kit written in Lit Web Components, ensuring WCAG 2.1 AA on all visual assets and proper release patterns using Rollup, NodeJS, Aritfactory, and GitHub Tags
- Engineer a UI monorepo in Angular 16 and TailwindCSS, utilizing Spectator, Jasmine, and Jest to achieve 85%+ code coverage
- Lead 3 independent mobile application releases for a major retailer, utilizing Firebase and Azure DevOps Pipelines to ship updates to over 1000 users across the nation
- Engage in a large scale application redesign for a B2B retail company, developing in NextJS and leveraging Redux and Saga to handle state mangement, Figma and Material UI for visual elements, and NodeJS symlink for local development
- Implemented authorization flows in Next.js by integrating with AWS Cognito services and DynamoDB for bulk onboarding of 20 client employees
- Organize technical discussion calls between the application team and all external touch points in order to drive solutioning and clarify data flows across 5 different teams

### Associate Consultant

*September 2020 – January 2022*

- Architected a user portal for a private insurance client, leveraging React and TailwindCSS to match Figma wireframes and wrote Jest tests to ensure 95% code coverage
- Utilized OAuth 2.0 Authorization Code flow and Okta IdP to enhance user's login experience, incorporating AWS Lambda Endpoints to migrate and authenticate over 500 users
- Leveraged i18n to implement localization at a marketing service client, creating translation JSON for over 4000 LOC in KnockoutJS, CoffeeScript, and plain HTML
- Designed a service provider validation form with complex functions in AngularJS, integrating with a Java based micro-service architecture powered by Springboot to collect data on over 100 form submissions
- Researched and imported a third-party NPM package to generate PDFs in Angular and created deeply customized styling logic using JSON according to package documentation
- Implemented an automated ETL workflow in AWS using AWS Glue Jobs, AWS CloudWatch Events, and AWS Step functions, transforming over 5000 records of non-relational data
- Created a React Web Application for a Fertility Clinic using WordPress as a CMS, augmenting the ability for end users to find fertility care and contact clinics via WordPress Forms

## Publications

**Alexa Eldercare Toolbox: A Smarthome Solution for the Elderly** | *React Native, Alexa SDK, Python, Bash*

- <https://ieeexplore.ieee.org/document/9298127>