

# Seunghun Oh

## Experience

### Alumni Ventures

*Senior Software Engineer*, Jan 2023 to Present

- Architected the new user-transaction database that stores all legacy and future user, account, authentication, club, and investment transaction information.
- Architected, created, and published a private NPM package through Rollup that the team can use to integrate authentication and access token logic into admin facing applications.

*Software Engineer*, Oct 2020 to Jan 2023

- Architected and implemented an Okta-based user authentication system using OAuth2.0 PKCE.
- Created new investor portal using React and Material UI (MUI) through which investors can speedily view their tax forms, investment statements, and investment portfolio.
- Created new tax availability center with React and MUI which lets users view and download compressions of tax documents.
- Implemented a new process for investor tax forms in NodeJS that has over 99% success rate.
- API creation, monitoring, and testing in AWS Lambda, API Gateway, and CloudWatch.
- Cache data into DynamoDB using Lambdas hosted in Serverless.
- Spin up AWS S3 buckets and EC2 instances directly and programmatically via Serverless.
- Perform data maintenance, schema developments, and database migrations using SQL.

### Wayfair

*Software Engineer*, May 2019 to Sep 2019

- Developed a React/PHP application facilitating warehouse item search and updates by querying databases via SQL queries and using MVC framework to relay user requests.
- Designed new SQL database with superiors and implemented new feature on supplier-side tool utilizing React/PHP with Redux to conditionally save admin-made staging requests.
- Generated and performed PHPUnit and Jest tests for new and existing software.

### Raytheon

*Software Engineer*, Aug 2018 to Mar 2019

- Resolved issue with qualification criteria, such as runway eligibility and flight plan checks, that prevents arriving planes from landing on top of each other on runways.
- Implemented alert suppression protocols for military aircrafts within their respective zones.
- Improved radar array software by dynamically lowering flight priority when altering modes.

## Projects

Splitr: Developed a mobile app that uses Tesseract OCR (text recognition AI) to parse items on a photo of a receipt and allows users to assign responsible items' total price to individuals via Venmo requests.

SICK Systems Throughput Prediction and Logistics Learning for EPIC: Identified features for EPIC that may influence optimality of sensor systems by preprocessing data to select features using LDA, then using SVM for 99%+ accuracy between packages' legality of trade and features.

American Sign Language Recognizer using HMMs: Generated Gaussian HMM models with CV, BIC, or DIC model selectors paired with SLM data to predict which word the speaker is signing based on features calculated from footage of sign language speakers.

## Education

### Boston University

*Bachelors, Major in Computer Science*, Graduated May 2018