Seunghun Oh

Experience

Alumni Ventures

Senior Software Engineer, Jan 2023 to Present
- Led the architectural design and development process, utilizing JIRA to create tickets, stories, and effectively assign tasks to team members.
- Architected a new user-transaction database to store all legacy and future user, account, authentication, club, and investment transaction information.
- Developed a private NPM package using Rollup for integrating 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 an investor portal using React and Material UI (MUI) for fast access to tax forms, investment statements, and portfolios.
- Created new tax availability center using React for users to view and download compressed tax documents.
- Implemented a new process for investor tax forms in NodeJS that has over 99% success rate.
- Created and monitored APIs using AWS Lambda, API Gateway, and CloudWatch.
- Cached data into DynamoDB using Serverless AWS Lambdas.
- Provisioned AWS S3 buckets and EC2 instances manually in AWS Console and programmatically using Serverless.
- Performed data maintenance, schema development, 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 issues with qualification criteria, such as runway eligibility and flight plan checks, preventing collisions on runways.
- Implemented alert suppression protocols for military aircrafts within their respective zones.
- Enhanced radar array software by dynamically adjusting flight priorities.

Projects

Splitr: Developed a mobile app utilizing Tesseract OCR for receipt text recognition and Venmo integration for assigning expenses to individuals.

SICK Systems Throughput Prediction & Logistics Learning for EPIC: Preprocessed data to identify features influencing sensor system optimality using LDA, achieving 99%+ accuracy on packages' eligibility with SVM

American Sign Language Recognizer: Generated Gaussian HMM models with CV, BIC, or DIC model selectors paired with SLM data to predict signed words based on features extracted from sign language footage.

Education

Boston University
Bachelor of Science in Computer Science

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