Roy Dey

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Technical Skills

Languages: Python, SQL, JavaScript, TypeScript, ReScript, HTML, CSS, Go, C++
Frameworks: Django, Graphene, GraphQL, PostgreSQL, React, ReactNative, AngularJS, NodeJS, GQLGen, Gorm
Developer Tools: Git, Retool, Docker, Amazon Web Server

Experience

Software Engineer – SILQ
03/2021 – 09/2022
Python, Django, PostgreSQL, GraphQL, React, ReScript   *San Jose, CA*

- Led development of purchase order system using Python, Django, and Graphene to record ordered goods.
- Developed quoting system using Python, Django, and Graphene to deliver guaranteed freighting quotes within 2 days and replace the manual parsing of freight manifests and calculation of shipping quotes.
- Implemented flagship web application features using React, ReScript, and GraphQL Relay, allowing clients to monitor projects, view the status of shipments, send messages, and complete tasks.
- Digitized garment QA inspections in a mobile app built with React Native, ReScript, and GraphQL Relay to improve the efficiency of textile factory QA processes and replace the need for physical forms.
- Built internal dashboards and workflows with Retool to track critical metrics and record operations data.

Application Developer – University of California Davis
06/2019 – 07/2020
AngularJS, JavaScript, MySQL   *Davis, CA*

- Revamped UI and mobile support for software ecommerce site with Angular, boosting engagement by 12%.
- Built testing platform using Angular, Bootstrap, and SQL, allowing staff to create and administer tests with automated tools, saving 2+ hours of manual labor per week and replacing costly vendor solutions.
- Developed internal tools for staff to easily track software licenses, replacing manual spreadsheet lookup.
- Prototyped features with Angular and MySQL to help management deliberate changes to web properties.

Projects

Raphunt | *React, JavaScript, Reddit API* | rdey0.github.io/raphunt/
- Developed a web application to gather and display links to hip-hop songs released in the past week.
- Utilized Reddit API and RegEx to gather popularity metrics and song information.
- Ranked songs based on user sentiment using calculations involving post karma, time, and engagement.

Restock Bot | *NodeJS, JavaScript, Puppeteer* | github.com/rdey0/restock-bot
- Created a web scraping tool to send email notifications when desired items are restocked.
- Implemented asynchronous web scraping and detected restock indicators with Puppeteer and JQuery.
- Facilitated email notifications by using Nodemailer to create periodic email jobs.

Connect 4 AI | *React, JavaScript* | rdey0.github.io/connect4_ai/
- Built a Connect 4 game which pits players against different AI controlled opponents.
- Created 5 unique AI opponents of varying difficulty, each leveraging adversarial tree search techniques.
- Implemented UI and game logic with React and JavaScript and created animations with CSS keyframes.

Education

University of California Davis
11/2016 – 06/2020
B.S. Computer Science; GPA: 3.4   *Davis, CA*