

# Roy Dey

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## Experience

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### 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

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### Raphunt | *React, JavaScript, Reddit API* | [rdey0.github.io/raphunt/](https://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.

### Jot | *React, TypeScript, Golang, PostgreSQL* | [jot-note-app.github.io/Client/](https://jot-note-app.github.io/Client/)

- Built a user-friendly note-taking and journaling web application, prioritizing economy of action.
- Hosted dockerized backed with AWS Elastic Beanstalk and automated CI/CD pipelines with Github Actions.
- Leveraged Gorilla sessions for secure session management and PostgreSQL tsvector for full text search.

### Restock Bot | *NodeJS, JavaScript, Puppeteer* | [github.com/rdey0/restock-bot](https://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.

## Education

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### University of California Davis

11/2016 – 06/2020

B.S. Computer Science; GPA: 3.4

*Davis, CA*

## Technical Skills

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**Languages:** Python, Golang, GraphQL, SQL, JavaScript, TypeScript, ReScript, HTML, CSS, C++

**Frameworks:** Django, Graphene, PostgreSQL, React, ReactNative, AngularJS, NodeJS, GQLGen, Gorm

**Technologies:** Git, Retool, Docker, Amazon Web Server