

# David Rajec

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## TECHNICAL SKILLS

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**Front End** | JavaScript, React.js, Next.js, Gatsby.js, CSS3, HTML5, SCSS, Redux, React-Router, MaterialUI

**Back End** | Node.js, Express.js, PostgreSQL, MongoDB, MySQL, Redis, Prisma, Nginx, RESTful API

**Testing/Deployment** | Jest, Mocha, Chai, React Testing Library, Docker, AWS: EC2 / S3

**Developer Tools** | Vim, Git, npm, Webpack, Babel

## PROJECTS

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**Ratings & Reviews** | github.com/beezyinc/Ratings-and-Reviews

2022

*Product ratings and reviews data API endpoint used by shopping web app*

Node.js, Express.js, PostgreSQL, Nginx, Redis, Docker, NewRelic, AWS EC2/Cloudwatch

- Increased RPS from 300 to 1300 by horizontally scaling to 3 dockerized, load-balanced server instances
- Implemented REDIS caching using docker-compose, dropping response time from 300 to 37ms
- Reduced database querying from <50 to <10ms on average by ensuring queries use database aggregation functions instead of server-side manipulation

**Catwalk** | github.com/beezyinc/Catwalk | http://54.210.174.187/product/63609/

2021-2022

*Client-side ecommerce portal of shopping web app developed with three engineers*

Node.js, Express.js, React.js, React-Router, Redux, CSS3, HTML5, Docker, AWS EC2

- Improved page load time by 66% after incorporating lazy loading and cutting client-server API calls from 6 per related product to 1 API call
- Deployed application using dockerized image which improved performance by 15%
- Developed global states and actions in Redux for product data and retrieval, allowing for more efficient sharing of state between teams' components
- Managed client-side routing via React-Router to ensure new product appears on page and is reflected in URL when related product is clicked

**SayWhen!** | github.com/beezyinc/SayWhen | saywhen.vercel.app

2022

*App limited to 2 days of development that allows user to schedule events with friends*

Node.js, PostgreSQL, Prisma, Next.js, Material UI, Vercel

- Created using Next.js to take advantage of server-side rendering (99 Lighthouse performance)
- Generates new availability page with unique ID when availability is submitted to enable sharing

## EXPERIENCE

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**Associate Editor (2021) | Editorial Assistant (2018-2020) | Production Assistant (2017-2018)**

*Cognella Academic Publishing*

- Spearheaded lean peer review process that reduced team's time on task by ~700 hours annually
- Reduced onboarding times and standardized processes by maintaining team process wikis
- Maintained >95% ontime task completion rate for ~300 tasks annually
- Supervised an intrepid team of three via regular meetings and open communication channels

## EDUCATION

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**Hack Reactor** - Advanced Software Engineering Immersive Program

2022

**University of California, Davis** - B.A. in Philosophy, English Minor

2015

**Grossmont College** - A.S. in Computer Science | A.S. in Mathematics

2012

- *Relevant Coursework:* Discrete Math, Intro to Programming (Python), Object-Oriented Programming (C++)