

# Derek Lam

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## EDUCATION

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### California Polytechnic State University, San Luis Obispo

June 2020

Bachelor of Science | Computer Science | GPA: 3.59

**Relevant coursework:** Software Engineering, Individual Software Engineering, Dynamic Web Development, Data Structures in Python, Project-Based Object-Oriented Programming and Design in Java, Discrete Structures, Systems Programming, Design and Analysis of Algorithms

## WORK EXPERIENCE

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### Project Jupyter | San Luis Obispo, CA

June 2019 - June 2020

#### Software Engineer Intern

- Developed a rich text editor extension for JupyterLab using TypeScript and React
- Utilized the ProseMirror toolkit to implement a rich text editor as the default editor for Markdown cells
- Collaborated with a designer in various stages of development, including user research and product design, to create a polished end product for JupyterLab
- Collaborated with members of the Jupyter open-source community to solve GitHub issues

### Cal Poly Extended Education | San Luis Obispo, CA

October 2018 - June 2020

#### Student Web Developer

- Helped maintain Cal Poly's International, Graduate, and Extended Education websites
- Updated websites by editing HTML, CSS, and JavaScript via requests from other departments
- Utilized various frontend technologies like Bootstrap and jQuery during development

## PROJECTS

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### Salewave Website | Freelance Work

Summer 2020

- Developed a freelance client's startup website as a React single-page application.
- Converted a Figma design to a website with responsiveness and cross-browser compatibility in mind.
- Created and utilized custom React hooks for form validation and cancelling Axios requests.

### Chat Application | California Polytechnic State University, San Luis Obispo

Spring 2020

- Implemented a chat web application where users can perform CRUD operations on accounts, conversations, messages, and likes
- Developed a Node and Express REST API for said CRUD operations
- Implemented sessions for authorization in the backend using cookies
- Operated under test-driven development in the backend using test collections in Postman
- Developed a ReactJS frontend using functional components and React hooks, as well as Redux for state management

## SKILLS

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**Web Programming Languages:** HTML, CSS/SASS, JavaScript (ES6), TypeScript

**Technologies and Frameworks:** Git, Slack, ReactJS, jQuery, Bootstrap, SQL, NodeJS, ExpressJS, ProseMirror