Derek Lam

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EDUCATION

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

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

Bike Shop Website | California Polytechnic State University, San Luis Obispo   **Fall 2018**
- Created a fictitious online bike shop with a VueJS frontend alongside a backend consisting of GraphQL as the API layer, Prisma as the data layer, and Apollo as the interface between VueJS and GraphQL
- Collaborated with four other peers under an agile development process, which involved communicating with our professor as the client, creating and updating user stories, and executing sprints in a timely manner
- Created several pages for the website, including frontend design and backend connection and functionality
- Developed API endpoints for several core data types within the website

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

Programming Languages: HTML, CSS, JavaScript, TypeScript, Java, Python, C, C++
Technologies and Frameworks: Git, Slack, ReactJS, jQuery, Bootstrap, SQL, NodeJS, ExpressJS, ProseMirror