

Jake Lin

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Skills

Languages	JavaScript, HTML, CSS
Technologies	React.js, Express.js, Node.js, MongoDB, Firebase, Tailwind, Bootstrap
Tools	Git, GitHub, Pug, NPM, Webpack, Jest, ESLint, Railway, MATLAB

Projects

Monogram - Instagram Clone

[GitHub](#) / [Live](#)

React | React Router | Firebase | Bootstrap

- An Instagram clone incorporating a weather widget to monitor weather/lighting conditions
- Implemented Google and email authentication through Firebase to handle user login securely
- Integrated Firebase Firestore and Cloud Storage for individual post information
- Asynchronously fetches and extracts current weather data from Open Weather API
- Interpreted and mediated JSON data from API into user-readable data

Inventory

[GitHub](#) / [Live](#)

Express.js | Node.js | MongoDB | Bootstrap | Pug

- Utilized MVC pattern alongside MongoDB schemas, Pug templates, and route controllers
- Sanitized and validated user input by Express-Validator
- Managed data through MongoDB in conjunction with Mongoose ODM

Minimal Garden - React E-Commerce site

[GitHub](#) / [Live](#)

React | React Router | React Testing Library | Jest

- Leveraged React Hooks to manage state of product information in the shopping cart
- Unit tested shopping cart function with React Testing Library and Jest
- Implemented React Router DOM for dynamic routing

Battleship

[GitHub](#) / [Live](#)

Jest | Webpack | JavaScript | CSS3 | HTML5

- Developed using Test-Driven-Development(TDD), and unit tested game logic with Jest
- Used OOP factory pattern to define game board objects and methods

Work Experience

Application Engineer

October 2018 - Present

TCT Circuit Supply

Placentia, CA

- Analyzed and documented over 200 test procedures to optimize PCB drill process
- Provided technical support for over 70% of drill shops across US
- Collaborated with an engineering team of 5 remotely to beta-test an IoT warehouse system
- Spearheaded a material cost-saving project, slashing 65% of material costs with improved drill quality
- Programmed CNC drilling machines and performed drilling, routing, hole accuracy measurements
- Audited 10 drilling machines, 50+ spindles, analyzed process robustness, and machine reliability

Biomedical Research Assistant

November 2016 - September 2017

Chang Gung University Department of Electrical Engineering

Taoyuan, Taiwan

- Integrated MATLAB programs to process 3D medical images, visualized the vascular stent in 3D
- Customized convolutional neural network models with TensorFlow for object classification

Technical Marketing Intern

July 2015 - August 2015

Ford Motor Company

Taoyuan, Taiwan

- Refined Escape's backseat ergonomic design to create a more comfortable user experience
- Conducted marketing research to innovate customer experiences and solidify Ford's brand image

Education

Master of Science in Power Mechanical Engineering

September 2017

Bachelor of Science in Power Mechanical Engineering

June 2015

National Tsing Hua University

Hsinchu, Taiwan