

# Jake Lin

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## Skills

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

## Projects

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### 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

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### 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

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### Master of Science in Power Mechanical Engineering

September 2017

### Bachelor of Science in Power Mechanical Engineering

June 2015

National Tsing Hua University

Hsinchu, Taiwan