

# Matthew HJ Jang

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## Education

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### University of California, Berkeley College of Letters & Science

August 2014 – December 2018

*Bachelor of Arts (B.A), Cognitive Science & Computational Modeling*

#### Coursework:

- CS61A: The Structure and Interpretation of Computer Programs
- CS61B: Data Structures
- CS 188: Introduction to Artificial Intelligence
- CS 70: Discrete Mathematics and Probability Theory
- Math 53: Multivariable Calculus
- Math 54: Linear Algebra and Differential Equations
- Physics 7A: Mechanics
- Physics 7B: Thermodynamics
- Civil Engineering Materials
- Engineering Geology
- Brain, Mind, and Behavior

**Relevant Skills:** JavaScript, React / Redux, Ruby on Rails, MongoDB, Express.js, Node.js, SQL, Python, Java, HTML, CSS, Git, AWS, Heroku, Webpack, RSpec, UI/UX, Adobe CC

## Professional Experience

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### Geekbears

January 2018 – May 2018

*UX/UI Designer & Consultant Internship*

Berkeley, CA

- Helped entrepreneurs around the globe develop innovative apps and websites
- Created appropriate user experiences and solid interface for clients' products using Sketch
- Received constructive feedback from clients, and applied to iterations
- Always have a user-centric mindset to want what the clients and business want

### Qubit Security

January 2017 – May 2017

*Software Engineering Internship*

Seoul, South Korea

- Investigated a malware pattern-matching tool called YARA to detect common SQL injection and Ransomware signatures
- Led the analysis team in implementing Apache Spark's machine learning library (MLlib)
- Improved real-time anti-hacking cloud detection to 6 seconds

## Projects

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### Shuttr

[Live Site](#) | [GitHub](#)

*Find your inspiration: full-stack Flickr clone || React / Redux, Ruby on Rails, PostgreSQL, AWS*

- Created an intuitive interface using Rails and React components to provide a seamless website for sharing photos
- Constructed templates via React component architecture, enabling efficient development of intuitive user session forms and secure user authentication

### TimeSpare

[Live Site](#) | [GitHub](#)

*Employment-oriented network service || MongoDB, Express.js, React.js, Node.js*

- Created an intuitive interface using the MERN stack that helps users find and offer temporary job openings in their local areas
- Constructed custom modal templates for user forms, and calendar API for bookings via React component architecture
- Incorporated the Axios.js library to make HTTP requests from Node.js

### Dungeon Escape

[Live Site](#) | [GitHub](#)

*Escape from the dungeon || Vanilla JavaScript, Web Audio API, HTML5 Canvas*

- Smooth rendering of HTML5 canvas to recreate a classic retro game experience
- Utilize a random-walk algorithm that indefinitely moves objects around until collision detection
- Designed global on-off buttons for Web Audio API through the JavaScript DOM EventListener