

Jonathan Kim

(240) 654 7568 | Kim.Jonathan426@gmail.com

[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

SKILLS

Languages: Javascript, Typescript, Python, MATLAB, SQL, HTML, CSS

Frameworks/Tools: React, Redux, Express, Flask, Sequelize, SQLAlchemy, PostgreSQL, AWS, Jupyter Notebook, SolidWorks

EXPERIENCE

Full Stack Developer

May 2023 - Present

Bucket Protocol

- Led the implementation and developed the front-end design using React.ts for Suilette (<https://suilette.io/>), the first roulette app hosted on the SUI blockchain.
- Utilized a blend of custom Vanilla CSS, Tailwind CSS, and SCSS to develop all component styles, eschewing libraries to create a tailored spinning solution for the wheel.
- Created a Node.js Express backend to service and maintain game states of the roulette wheel and oversee the operation of various games within the application.
- Hosted the backend on an AWS EC2 instance behind a load balancer to optimize system availability and scalability.
- Leveraged tmux to create several pseudo terminals for efficient session management and simultaneous operation of multiple games on a single EC2 instance.
- Created custom React hooks to efficiently encapsulate and share complex state management and logic across the application, promoting code reusability and maintainability.

Manufacturing Associate Engineer

May 2021 - Mar 2022

Catalent Pharma Solutions

- Worked with clients to formulate upstream and downstream processes to ensure consistent and high quality pharmaceutical products.

Software Engineer Intern

Oct 2020 - Apr 2021

Becton Dickinson

- Developed and trained a sequential machine learning model using Python, TensorFlow, Keras, and OpenCV to increase the accuracy and efficiency of patient sample measurements in high throughput laboratory diagnostics by approximately 5%.
- Actively contributed to the software development life-cycle (SDLC) in an Agile environment providing clinical mentors with ideas, designs, specifications, budgets, and other online deliverables.
- Led project planning activities by employing Gantt charts, milestone charts, and workflow diagrams to establish clear project timelines and expectations for improved project coordination.

PROJECTS

AirBallnBrick (React / Redux / Express / Sequelize / Postgres)

[live](#) | [github](#)

- Implemented Google OAuth 2.0 using server to server flow via the Google Cloud Platform so the application can gather different scopes of data authorized from the user for convenient and assisted authentication.
- Employed CSS media queries, transitions, and animations to create a responsive and fluid web design that adapts the interface to various devices and enhances the user experience.

EDUCATION

App Academy

2022

- *Web development bootcamp*

University of Maryland, College Park

2017 - 2021

A. James Clark School of Engineering

- *Bachelor of Science - Bioengineering (Software and Bioinformatics concentration)*