

Jonathan Kim

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

SKILLS

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

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

EXPERIENCE

Full Stack Engineer Volunteer

Mar 2023 - Present

Code for D.C. (Code For America)

- Engineering a software solution using Python, Jupyter Notebook, Pandas, Boto3, AWS Textract, S3, and other technologies to extract voter information, eliminating the need for manual inspections and reducing the processing time exponentially.
- Actively participating in project standups to share progress updates, listen to other teams, and address interdependencies across different areas of the project using Agile Scrum methodology.
- Collaborating with a cross-functional team to automate the data collection process from tens of thousands of ballot initiative petition forms which would reduce the overall manual work required by over 80%.

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.
- Managed scheduling and booking CRUD through custom transactional database operations using PostgreSQL and Sequelize.

Instaspam (React / Redux / Flask / SQLAlchemy / Postgres)

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

- Incorporated hashtags by utilizing a many-to-many polymorphic relationship table and custom functions which scans a post's caption enabling the identification, addition, and deletion of hashtags.
- Utilized on change event listeners and passed down search queries allowing users to filter posts, users, and hashtags of interest based on keywords.
- Researched and employed react packages easy-crop and emoji-picker for improved user experience and functionality.

EDUCATION

App Academy

2022

- *Web development bootcamp*

University of Maryland, College Park

2017 - 2021

A. James Clark School of Engineering

- *Bachelor of Science - Bioengineering*