

SKILLS

Javascript/Node.js, Python, React/Redux, Express, Flask, PostgreSQL, SQL, HTML/CSS, REST APIs, Git, Docker, Amazon Web Services (AWS S3), Heroku, Mocha, Object-Oriented Programming (OOP), Scrum & Agile Methodologies

PROJECTS

Timeout

site | github

Inspired by Apple's mobile alarm application, toggle alarms independently or collectively.

- Designed and built the entire application from zero to production with **Javascript, Python, React, Redux, Flask, PostgreSQL, Docker, AWS S3, Figma**, and **Heroku**.
- Integrated a **React** component package, **Multiselect**, to provide multi select functionality, dramatically reducing the number of **REST API calls**.
- Devised a snooze feature by incorporating a countdown timer in **local storage**.
- Established “global” state variables with **React Context** to pass the current time across the entire **component tree**.
- Optimized custom **error handling** and **validations** with **React hooks** to deliver inline errors in **O(1) time complexity**.
- Refined filenames using a **universally unique identifier (UUID)** in **AWS S3 buckets** to generate unique names and regulate specific file upload types.
- Restructured and debugged a model column in **Python’s Object Relational Mapping (ORM), SQLAlchemy**, to work around **Flask-WTF**'s DataRequired’s post-coercion behavior.

Sea

site | github

A FinTech investing application for trading a variety of stocks under the S&P 500 index.

- Built the portfolio feature from the ground up on a team of three other developers with **Javascript, Python, React, Redux, Flask, PostgreSQL, Docker**, and **Heroku**.
- Created an algorithm in **Flask** that models stock prices to consolidate third party and **REST API calls** by eagerly loading the data for optimized performance, scalability, and maintainability.
- Implemented a chart library, **Recharts**, to visualize a large collection of datasets for a selected timeframe.
- Integrated a **Python financial news API library**, Finnhub, to display real-time general and company news.
- Streamlined custom algorithms with tedious calculations to generate real-time asset updates for each transaction on the dashboard in **O(n) time and space complexity**.
- Collaborated with team members through **Agile methodologies** and **Git version control** to maximize workflow within a one week deadline.

Aurora

site | github

An audio streaming and artist-platform application that allows users to upload tracks and interact with other users’ contents.

- Built a seamless full stack application and worked across the entire development life cycle with **Javascript, Python, React, Redux, Express, Node.js, PostgreSQL, AWS S3**, and **Heroku**.
- Leveraged **Redux** to build a single page app by facilitating state management throughout a user’s session to dynamically render **React components** and manage form submissions.
- Incorporated **CSS keyframes** on the like button to encourage user interaction and improve **user interface (UI)**.
- Designed and built a search engine results page (SERP) with **Sequelize’s model query** and **operators (Op)** to filter queries in the database.
- Enhanced multi file upload types by incorporating **Multer** and cloud storage via Amazon’s **AWS S3 buckets** and **AWS SDK** in **Express**.
- Created a custom audio player with **React** and **Redux** to navigate through each track and maintain the integrity of the media player functionality without compromising the overall **UI/UX**.
- Capitalized on an intuitive and simplified **UX** by incorporating inline editing for the comments section with ternary operators in **JSX** and **Babel**.
- Implemented **Bcrypt** to hash and store user passwords in the database to protect user credentials.
- Leveraged **JSON Web Token (JWT)** as an authentication mechanism to minimize requests to the database.

EXPERIENCE

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Accounting Assistant

Inteplast Group

Jun 2020 - Feb 2022
Livingston, New Jersey

Outperformed colleagues and exceeded company expectations through reconciling company accounts by processing over **1,300 invoices each month**, saving the company over **\$50,000** annually, which ultimately led to an administrative role **supervising and training new hires** within the first 3 months with minimal field experience.

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Mathematics Paraprofessional

Niles North High School

Aug 2018 - Jun 2020
Skokie, Illinois


Collaborated with teachers and taught over **150 students** to implement research based interventions for the purpose of presenting and reinforcing learning concepts while monitoring their schedules, academics, and behavior plans to uphold a **secure and positive learning climate**.

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Mathematics Tutor

Adlai E. Stevenson High School


Mar 2017 - Aug 2018
Lincolnshire, Illinois

Surpassed colleagues in the Student Learning Program (SLP) department by providing instructional support to **more students than any other tutor** (over **40 students per day**) in all levels of mathematics, including Algebra, Geometry, and Calculus.
- EDUCATION
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App Academy

An immersive 1000+ hour web development bootcamp

Feb 2022 – Jul 2022



Illinois State University

B.S. in Secondary Mathematics Teacher Education

Aug 2012 – May 2016