William Short

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SKILLS **React.js, Redux, JavaScript, Python, Node.js, Flask, Express, TDD, HTML5, CSS3, SQL, Git, Java**

TECHNICAL PROJECTS

Indie-Go (Javascript, React / Redux, Python, Flask, AWS S3, PostgreSQL, CSS3, HTML5)   Live Site | Github
An Etsy clone for Indie games, lets users browse over 400 preseeded games, create game listings and leave reviews.
- Utilized **AWS S3** to facilitate user uploads for video and photos, storing data as URLs to reduce server and database load times.
- Implemented **React / Redux** to store site-wide state, allowing for information to be displayed across multiple pages without having to dispatch to the server, decreasing user load times and server load.
- Incorporated **Steam API** to seed Indie-Go's database with Indie games on steam, allowing for a rich user experience without the need for other users to upload games.
- Used **SQLAlchemy** to query for information from tables in the **PostgreSQL** database and serve it with **Flask** RESTful routes to a **React** frontend to display to the user.

Harmony (Javascript, React / Redux, Python, Flask, AWS S3, PostgreSQL, Web sockets, SQLAlchemy)   Live Site | Github
 A discord clone allowing users to chat with each other in real time in channels and servers.
- Engaged with a **team of 4** in an **Agile** environment to design this full stack application facilitating parallel development and allowing every team member to contribute equally to the application.
- Leveraged **web sockets** to work alongside **React / Redux** to update multiple user states for servers, channels, and messages to create seamless and immediate data flow between users.
- Implemented a **PostgreSQL** joins table between users and servers to allow server owners to add and remove other users as members of servers.

Barista (Javascript, React / Redux, Express, Node.js, PostgreSQL, Google Maps API)   Live Site | Github
An Untapped clone where users are able to see local coffee shops and post about drinks they are having.
- Utilized **Google Maps API** to create unique experiences for every user that visits the site by displaying local coffee shop data based on the user's current geolocation.
- Built an **Express** server utilizing RESTful route conventions that works with **Sequelize** to efficiently handle data transfer between the **PostgreSQL** database backend and **React / Redux** frontend.
- Secured user data by incorporating **JSON Web Token** and **Bcrypt** password hashing to protect routes and verify user credentials.

EDUCATION

App Academy - *Full Stack Web Development*   July 2021 – January 2022
- 1000-hour immersive full-stack web development intensive with <3% acceptance rate.
- *Learned: Object Oriented Programming, Test Driven Development, Agile work environment and common full stack technologies.*

LEADERSHIP

Metal Cow Robotics, First Robotics Competition Team 4213 - Normal, Illinois
Control Systems Captain   January 2016 – June 2018
- Oversaw a team of **4-7** students in an **Agile** environment to develop a **Java code base** for a 120 pound robot in **under 6 weeks**.
- Headed the development of reusable libraries to reduce repeated, yearly development time by **20%**.
- Programmed with **Java's OpenCV library** for live camera processing for the robot to be able to carry out autonomous actions.
- Represented the state of Illinois as a delegate at the national 4-H conference due to individual robotics mastery.

ADDITIONAL WORK EXPERIENCE

DoorDash / Uber - Normal, Illinois.   (May 2020 – Current)**.**   *Courier / Driver (Independent Contractor)*
- By recording wait times and price per mile I created a spreadsheet to determine the minimum order amount to take at each restaurant which pushed my profits from $15 an hour to over $25 an hour.
- Used customer service and communication to provide rides to over 450 customers over 12 months, maintaining a 4.99 star rating.

Afni - Bloomington, Illinois (September 2019 – May 2020)   *Customer Service Specialist / 800 number specialist*
- Improved customer communication and branding for 5 companies by working with them to set up a personalized 800 number.
- Used conflict resolution and de-escalation tactics to assist 25+ customers a day with promotion issues for a fortune 50 company.

Walmart - Normal, Illinois (July 2018 – August 2019)   *Online Grocery Program Shopper*
- Served **more than 100 customers daily**, successfully managing online orders, averaging **200 items picked per hour.**
- Re-organized back room to improve workflow efficiency and enhanced equipment inventory accuracy.