KALYPSO

Javascript / Typescript
Node • Express • React • Git

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TECHNICAL PROJECTS

MANHUNT | *AUGMENTED-REALITY BOUNTY HUNTING GAME* • **github.com/Augmented-Lethality/manhunt**
- Developed an AR gaming experience by integrating **AR.js** and **Three.js** with **TensorFlow** for facial recognition.
- Implemented the backend using **Node** and **Express**, along with **Axios** and **Socket.IO** for efficient HTTP requests, and **Sequelize** for streamlined interactions with a **PostgreSQL** database, ensuring smooth real-time data transfer between users.
- Engineered an interactive user interface with **React** and **Styled-Components**, providing users with real-time facial landmark tracking and intuitive feedback about their progress towards meeting the win conditions.
- Provisioned and configured **AWS** environment for target web application deployments, including **EC2** and **RDS** instances.

CABINS & CONDOS | *SHORT-TERM RENTAL SITE*
- Worked directly with a client to develop an e-commerce website using **WordPress** and **PHP**.
- Synced property bookings with other platforms in the client's channels to maintain consistent user information and ensure bookings were synced across all platforms.
- Implemented a payment system using **Stripe** and **Paypal**.

HEADSTRONG | *STRESS-INDUCING MINDFULNESS WEB APP* • **github.com/licensed-therapists/headstrong**
- Developed a **React**-based web application based on the word game "GHOST", hosted with **Express** and **NodeJS**.
- Architected an **algorithm** to solve "GHOST", employing a tree-based data structure to rapidly calculate the optimal move, ensuring the game was nearly unbeatable.
- Engineered a dynamic, context-aware chatbot feature by leveraging **OpenAI's API**.
- Implemented **Oauth/Passport**, **Sequelize**, and **MySQL** to create a secure user database to provide a personalized experience.

FELLOWSHIP FINDER | *TABLETOP RPG SOCIAL MEDIA APP* • **github.com/party-cubed/fellowship-finder**
- Engineered a dynamic event planning module utilizing **React**, featuring an intuitive event form and calendar interface.
- Integrated seamless data transfer via **Axios** for HTTP requests, ensuring efficient CRUD operations with a **Sequelize**-powered **MySQL** database.
- Implemented UI design by leveraging the **MUI** library and **CSS**, optimized for a cohesive and engaging user experience.
- Tracked team progress with **Trello** to ensure high visibility of the current status of the app within an **agile scrum** environment.

WORK EXPERIENCE

WEB DEVELOPER | *SELF-EMPLOYED* | *New Orleans* | *2023-current*
- Worked directly with clients to build and deploy bespoke web applications using a variety of frameworks.
- Leveraged modern web technologies and best practices to ensure responsive design, cross-browser compatibility, and optimal performance across all projects.

PROJECT MANAGER | *REDMELLON REAL ESTATE* | *New Orleans* | *2021- 2022*
- Oversaw the automation of the rental application process, saving over **$100,000** of labor costs yearly.
- Designed and oversaw the manufacturing and importation of code-compliant architectural materials worth over **$50,000**.
- Contracted out construction work at over a dozen properties and reviewed work for quality throughout the construction process.
- Implemented a camera security system for over **200** properties.

EDUCATION

BFA IN DIGITAL MEDIA | University of Alabama | Graduated with Honors in May 2018
- Undergraduate Research & Creative Activity Grant recipient for work in virtual reality.
- Farley Moody Galbraith Endowed Scholarship for outstanding Artistic Achievement.

INTERESTS

STUDYING & READING | Python • Django • NumPy • Tensorflow • Snow Crash

GENERAL | Jiu Jitsu • Swing Dancing • Guitar and Cello • Board Games & Tabletop RPGs • Narratives • Visual Storytelling