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| **Kyle Kassen** Software Engineer | | | | | |
| Icon  Description automatically generated(469) 474-4382 Kyle.Kassen@gmail.com linkedin.com/in/kyle-kassen/ github.com/kylekassen | | | | | |
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| **RELEVANT SKILLS** | |  | | | |
| JavaScript  ARM  C++  SQLAlechemy  Node.js  HTML5  Python | | | | | |
| Jest  Verilog  Webpack  NPM  Chai  Mocha  SQLite3  PostgreSQL  Alembic  MATLAB  Git  Docker  Sequelize  Express  React  CSS3 | | | | | |
| **SOFTWARE ENGINEERING PROJECTS** | | | |  | |
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| **Congo | React, Redux , Express, PostgreSQL, AWS: S3, Docker, Flask , Heroku** [**GitHub**](https://github.com/KyleKassen/Congo)[**Live Site**](https://congo-site.herokuapp.com/)  *Website clone of Amazon’s ecommerce site, incorporating similar features and design elements.* | | | | | |
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| * Utilized AWS S3 to implement user image uploads reducing server load and allowing for scalability of image services * Incorporated React-Redux useSelector and useDispatch hooks to architect highly scalable and uni-directional front-end state management. | | | | | |
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| **4IRBNB | React, Redux , Sequelize, PostgreSQL, Heroku, Google Maps API** [**GitHub**](https://github.com/KyleKassen/4irbnb)[**Live Site**](https://first-app-kk.herokuapp.com/)  *Full-stack website providing property rental services; based on Airbnb’s website.* | | | | | |
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| * Leveraged Sequelize operators to optimize database usage and increase performance, resulting in a reduced server response time of 65% on average * Implemented Google Maps API to display dynamic, interactive maps within the project, providing users with visual information about rental property’s location | | | | | |
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| **Halp | React, Redux, Express, PostgreSQL, SQLAlchemy, Flask, Heroku** [**GitHub**](https://github.com/BenjaminKHLau/Halp)[**Live Site**](https://halpimhungry.herokuapp.com/)  *Site that offers reviews of local businesses based on Yelp.* | | | | | |
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| * Optimized search functionality by implementing pattern matching techniques for querying the database, resulting in highly relevant search results for users * Deployed frontend and backend authentication measures to prevent CSRF attacks and protect routes, ensuring user privacy and autonomy | | | | | |
| **OTHER EXPERINCE AND PROJECTS** | | |  | | |
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| **CivilTopo Startup | Founder Dec. 2021 – Jun. 2022**  *Provided aerial drone mapping and modelling via advanced lidar and photogrammetry techniques.* | | | | | |
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| * Created a Python script that generates topographic data reports based on user input obtained through Google Maps API | | | | | |
| **Capstone Project for Archrock | Retrofitting/Converting Engine Simulator Jan. 2021 – Dec. 2022**  *Upgraded natural gas engine simulator to operate on digital signals by reverse-engineering ECM and analog components.* | | | | | |
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| * Developed a full-stack website that stores pre-configured engine operating states and enables technicians to remotely trigger faults on the system. * Implemented a master-slave connection between a Raspberry Pi and a microcontroller to simulate the signals generated by sensors in a real natural gas engine | | | | | |
| **EDUCATION** |  | | | | |
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| **Texas A&M University, College Station, TX App Academy**  *Bachelor of Sciences, Electrical Engineering, December 2021 Software Engineering Immersive, November 2022*  Honors: cum laude (GPA: 3.6/4.0) | | | | | |