MELVIN MALLARI

P: 650-438-5544 | melvintmallari@gmail.com | melvinmallari.com | LinkedIn | Github

SKILLS
Ruby, Ruby on Rails, RSpec, JavaScript, jQuery, React, Redux, SQL, Git, HTML5, CSS3

PROJECTS

Green Arrow | *(React/Redux, Ruby on Rails, Recharts.js, Postgresql)*   **live** | **github**
- Designed price accurate transactions system by integrating IEX API to query intraday and historical stock data in real-time
- Developed a smooth, intuitive UI by leveraging Recharts to allow users to interactively interpret stock price fluctuation data
- Enabled users to make informed decisions by utilizing News API queries to provide recent, curated articles regarding relevant user searched stocks

Sweet Analytics | *(MongoDB, Express, React, Node)*   **live** | **github**
- Integrated Twitter and IBM Watson Tone Analyzer API to fetch 100 tweets per searched hashtag and apply sentiment analysis on aggregate tweet data
- Visualized analysis results using Chart.js to present sentiment data across 7 tone categories
- Streamlined team git workflow by introducing peer-reviewed pull requests to minimize merge conflicts and increase intra-team code familiarity

Cookie-Mon | *(Javascript, HTML, CSS)*   **live** | **github**
- Developed path-finding algorithm by utilizing key stroke event listeners to predict projected sprite path and generate optimal route
- Implemented collision detection algorithm for sprites to enable character death and obstacles
- Built parsing capabilities to interpret JSON input to allow for easy, visual level editing

EXPERIENCE

Mechanical Design Engineer
Haig Precision Manufacturing Corp   Oct 2017 - Oct 2018
- Generated $75,000 in revenue across 16 mechanical design projects utilizing weldments, machined and formed sheet metal parts
- Reviewed design documentations and drawings saving hundreds of engineering and manufacturing re-work hours
- Drafted drawings for parts and assemblies to document manufacturing and assembly instructions to ~50 machinists and technicians
- Interfaced with 5+ recurring clients to define problem parameters and design considerations

Jr. R&D Engineer
CuraSeal   Aug 2017 - Oct 2017
- Generated 10+ SolidWorks model iterations improving internal analysis and simulation capabilities
- Created documents and procedural diagrams used for FDA approval of flagship product

EDUCATION

University of California, Davis - *BS Mechanical Engineering, 2012-2016* **GPA:** 3.46/4.00
App Academy - 2019 - 1000-hr full-stack web development immersive with <3% acceptance rate