

Skills & Expertise

Experience: React, Redux, JavaScript, HTML, CSS, Material UI, Tailwind CSS/UI, Node.js, Express, RESTful APIs, Python, Matlab, Tensorflow, Keras, D3.js, MySQL, Postgres, Jest, Git, Agile, Figma, Ansys AQWA, Orcaflex, GEDAP

Recent Projects

Pick Em | *Full Stack Engineer* | Investment application for analyzing key financial indicators for beginners and sophisticated investors.

- Developed a fully functional MVP (<https://getpickem.co>) based on stakeholder provided wireframes; from technical specification, to testing, to product video.
- Front end built using React/Redux, Material UI, Firebase for authentication, and Stripe for payments.
- Back end built using Node, Express, and PostgreSQL.
- Responsible for building financial charts using D3.js, *react-stockcharts*, and time series data from the Alpha Vantage API to display key financial indicators.

Compound | *Front End Engineer* | A SPA potential earnings calculator (<https://compound.careers>) for Lambda School students.

- Built with a team of five developers during the Lambda School Winter 2019 Hackathon and won the Data Science category.
- Acquired by Lambda School and currently being integrated into lambdaschool.com as both a popover and standalone page.
- Built the main charting component using Redux for state management and *react-vis* for charting.

Experience

Delmar Systems, Inc. | *Project Engineer*

July 2012 - Current

- Supported offshore field development through engineering, planning, project management, installation, vessel coordinating, and hook up activities for deepwater projects.
- Conducted frequency and time domain analyses using ANSYS AQWA, Orcina Orcaflex, Python, and Matlab.
- Modeled and analyzed novel mooring equipment installation methods using Orcina Orcaflex and Python.
- Significant experience in high pressure offshore environments in Australia (>15), Africa, and the Gulf of Mexico (>10).

Texas A&M University | *Graduate Research/Teaching Assistant*

August 2010 - May 2012

- Conducted experiments to determine the region of influence around a cutterhead dredge and its effects on dredge parameters.
- Led visiting engineering professionals through real world dredging simulations in various short courses to obtain a dredging certification.
- Led data acquisition and analysis for various industry projects and controlled wave generation in various wave basins.
- Teaching assistant for Underwater Acoustics, Underwater and Moored Systems, and Computer Applications in Engineering and Construction.

Superior Energy Services, Inc. | *Project Engineer*

July - August 2010

- Performed detailed design work for a containment dome project. Worked primarily with Solidworks and Rhinoceros 3D to create preliminary design models and storyboards.

Transocean | *Assistant Chief Project Engineer*

July 2008

- Worked as a supervisor on the GSF Arctic III Upgrade Project in Las Palmas, Canary Islands, Spain.
- Oversaw repairs and upgrades of mud pump engines, fresh water compressor piping, and stand-pipe manifold block, as well as other minor projects.

Education

Lambda School Academy of Computer Science and Web Development - *Remote*

2019

Udacity - Self Driving Car Nanodegree - *Remote*

2018

Texas A&M University - MS, Ocean Engineering (Overall GPR: 3.14/4.0) - *College Station, TX*

2010 - 2012

Texas A&M University - BS, Ocean Engineering (Overall GPR: 3.32/4.0) - *College Station, TX*

2006 - 2010