William Vennard

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Engineering Experience

Ideal Pancakes, Denver, CO

Co-Creator and Front-End Developer May 2022 - Present

- Leading the design and development of a recipe-sharing platform using React with TypeScript and Bootstrap, ensuring a highly maintainable and responsive application
- Collaborating closely with the back-end developer to design the server-side API in Python, making informed decisions on data structures, and determining optimal hosting methods on AWS
- Managing end-to-end UX/UI design, ensuring a polished and user-friendly interface

Scheduled to launch in Spring 2024

Spatial Front Inc, Bethesda, MD

Tech Lead and JS Developer November 2020 - March 2022

- Led the front-end design and development for USDA's revamp of the Engineering Field Tools application, using modern React and Mobx while utilizing Scaled Agile development framework
- Participated in new hire interviews, mentored new team members, took part in regular code reviews and helped set coding standards for the team
- Worked closely with UX/UI team to create wireframes and optimize workflows and layout
- Helped set up and configure the front-end CICD pipeline and integrate with BitBucket

GradientOne, San Francisco, CA

Front-End Web Developer May 2015 - November 2020

- Established framework and performed research and development to create GradientOne's first viable product in addition to participating in both customer and investor presentations
- Developed UI for GradientOne's website using HTML, JavaScript, and libraries including Angular, Bootstrap and jQuery to aid in performance optimization and usability
- Designed virtual interfaces for an Oscilloscope and Power Meter capable of receiving live data through the cloud-computing platform Google App Engine
- Created detailed data visualizations for large-scale data analysis including histogram, linear regression, heat map and principal component analysis plots

UCS Spirit, Carson City, NV

Mechanical Engineering Consultant May - August 2015

- Designed and installed deflection measurement machine for use in pole vaulting manufacturing plant incorporating a label/barcode printer to aid in inventory and distribution
- Increased accuracy of deflection measurement by an order of magnitude as well as simplified the manufacturing process resulting in a 50% decrease in cycle time
- Coordinated and led a team of two other engineers in order to leverage outside expertise

Education

B.S. Mechanical Engineering, University of Colorado Boulder May 2016
Cumulative GPA: 3.22/4.00

Front-End Web Developer Nanodegree, Udacity August 2016

Technical Skills

HTML/CSS, JavaScript, Angular, React, D3, Jest, Bootstrap, jQuery, MobX, LabVIEW, MatLab/ Simulink, Excel/VBA, SolidWorks, Agile, Jira, Microsoft Office