

John C. Casabar

www.linkedin.com/in/john-casabar/

Portfolio: <https://jcsnofashepherd.github.io>

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Education

University of California, San Diego

GPA 3.428 / Major 3.572

B.S. Bioengineering: Bioengineering (ABET)

June 2018

University of California, San Diego on Coursera

Object-Oriented Programming in Java Certification

Aug. 2018

Data Structures and Performance

Sep. 2018

Advanced Data Structures in Java

Oct. 2018

FreeCodeCamp

Front End Web Development Certification

May 2017

JavaScript Algorithms and Data Structures Certification

June 2018

Front-End Libraries, Data Visualization, and APIs and Microservices Certifications

Mar. 2019

Work Experience

Lumin Weddings, Website Developer

www.luminweddings.com

Jan. 2018 – July 2018

- Redesigned website to go beyond WordPress' customization limitations to meet employer's standards of conciseness and personality by utilizing CSS, JS, and code injections

Open Door Community Church, Web Dev

www.laopendoor.church

Sept. 2017 – Apr. 2018

- Applied website overhaul, rolling out configurations - such as optimizing blog and post hierarchy - and maintenance, through Squarespace and code injection

Donna Lee Comics, Web Dev

www.donnahyulee.com

July 2017 – Dec. 2017

- Implemented site layout specifications, such as user-friendly navigation and responsive design, through WordPress, PHP, and code injection

Skills

Languages

- HTML, CSS, JS, Java, C#, Ruby

Technologies

- SASS, Bootstrap, jQuery, ES6, React, Redux, D3, Node, Express, mongoDB, SQLite
- Git, WordPress, Squarespace

Engineering

- SolidWorks, MATLAB, Autodesk Inventor, AutoCAD, LabVIEW, Simulink
- Machine Shop, 3D Printers, Breadboard, Function Generator, Data Acquisition Systems

Projects

Front End and Data-Visualization Applications

Apr. 2017 – Aug. 2017

- Created website applications with HTML, CSS, and JS
 - e.g.: A weather application based on location or search query
 - Games such as Simon Says and Tic-Tac-Toe
 - Tools such as a calculator, a Pomodoro clock, and a markdown previewer

Back End Applications

Oct. 2017 – Nov. 2018

- Implemented Dijkstra's and A* Search algorithms in a street navigation Java applet
- Created microservices utilizing HTML, CSS, JS, and mongoDB
 - e.g.: URL Shortener, Image Search Abstraction Layer, and File Metadata Extractor

Anti-Adhesion Biomaterial Delivery Device

Sept. 2017 – May. 2018

- Sponsored by Dr. Karen Christman with four other bioengineering students to develop a novel solution in delivering biomaterials that prevent pericardial adhesions from attaching to the heart
- Involved in the designing of essential parts of the device using SolidWorks
- Created a website displaying all project information using vanilla HTML, CSS, JS

<https://jcsnofashepherd.github.io/anti-adhesion-device/>

Research Experience

University of Southern California Armani Lab, Research Assistant

June 2012 – June 2013

- Worked under Dr. Andrea Armani's Materials Science, Photonics, and Biology Research Group and assisted Ph.D. candidate Ashley Maker in the production of biocompatible film capable of adhering to nanoparticles while maintaining integrity and quality factor of the silica microtoroid