

Elsie Cho

@Los Angeles, CA (Willing to relocate)

Front-end software engineer

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🏠 elsiemade.com

🐙 github.com/elsie-c

RECENT PROJECTS

elsiemade.com – A personal website to serve as an interactive resume and showcase a number of stylistic concepts [JS, Heroku, Lightroom, Photoshop].

Brickade – A masonry-ordered photo grid web page [React, NodeJS, Github Page, Lightroom, Photoshop]

RadQA Data Repository – Designed the frontend for a web app that stores troubleshooting and data for local MRI scanners. [MERN, Material-UI]

Task-IT – A to-do-list app, built to gain understanding in front-end development and responsive/intuitive UI design. [React, NodeJS, Material-UI, Github Page]

WORK EXPERIENCE

Graduate Researcher @ UCI BioMEMS/Carbon MEMS Lab
Jun 2017 – Oct 2018 // Irvine, CA

- Led and executed collaborative and translational projects using GANTT chart/agile project management.
- Developed a novel method to fabricate carbon for:
 - Ion nanosensor for monitoring thyroid deficiency disorder. (Published)
 - SMART water filter to specify water contaminants.
 - Improved biocathode for clean energy. (Published)

Graduate Student @ UCI Thermoplastic Shrink Lab
Sept 2016 – Jan 2017 // Irvine, CA

- Re-evaluated biosensor on nano-structured silica films for point-of-care devices (Published).
- [Project]: Optimized the design of multiscale platform using gold nanoparticles for detecting specific proteins.

Research Analyst @ Rheumatology Diagnostics (RDL)
Jul 2015 – Apr 2016 // Culver City, CA

- Conducted routine device testing and troubleshooting.
- Performed data crunching and analysis to study disease trends and panels using Excel Analytics.

R&D Research Associate @ Hycor Biomedical
Jul 2014 – Jul 2015 // Garden Grove, CA

- Developed and optimized a high-throughput diagnostic medical instruments for allergy IgE-based testing in a regulated lab environment (Published).
- Troubleshot both instrumental/manual assays and reported in weekly team and interdepartmental meetings.

SKILLS

PROGRAMMING LANGUAGES

Javascript, CSS, HTML

LIBRARIES & FRAMEWORKS

React/Redux, NodeJS, Express, Material-UI, Bootstrap, MongoDB/Mongoose, Jest

TOOLS & PLATFORMS

Git, Github Page, Heroku, Appbase.io, firebase

DESIGN

Lightroom, Photoshop, Premier Rush

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE
M.S. Biomedical Engineering (2018)

UNIVERSITY OF CALIFORNIA, SAN DIEGO
B.S. Biochemistry/Cell Biology (2014)

PUBLICATIONS/PATENTS

1. Cho et al., Serological Assay for Diagnosis of Myositis, 10th ICA, Leipzig, Germany (2016).
2. USPTO W02017011560A1 – Customizable Instrument (2017).
3. Kassin et al., CAV-3 plays a critical role in autophagy, AJP (2016).
4. Lin et al., Multi-scale silica for improved POC, Irvine, CA (2017).
5. Cho et al., Rapid Iodine sensing on carbon nanofibers, Sensors (2018).
6. Cho et al., Enhanced Bioelectrocatalytic Reduction of O₂ by LAC on N-rich carbon nanofibers, ECS, Seattle, WA (2018).
7. Holmberg et al., Carbon nanofibers for electrochemical platforms.

INTEREST/HOBBIES

Camping, photography/photo editing, traveling, hiking, skiing