

# GARY CHANG

<https://cherrygang.github.io/Gary-Chang-Portfolio/>

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## Education

### Duke University

Sep 2015 - Dec 2016

Master of Engineering | Biomedical Engineering | Medical Devices | GPA: 3.7

### University of California - Irvine

Sep 2011 - Jun 2015

Bachelor of Science | Chemical Engineering | Biomolecular Engineering | GPA: 3.6

## Work Experience

### Software Engineer

May 2022 - Feb 2023

Meta Reality Labs - Redmond, WA | Contract through Magnit Global

- Created an internal material ordering tool utilizing Hack/Python that allows for any internal users to create prescription lens order documents bypassing third-party single machine license limitation.
- Developed a python-based pipeline to generate annotation data for oct scans to be used in machine learning training sets automating and speeding up a previously manual process.
- Ensured stability of developed tools through the implementation of automated testing, alarms with performance metrics, and runbooks for on-call support.
- Authored comprehensive technical documentation for developed internal tools, including onboarding instructions and examples to help both users and developers familiarize themselves with the tools.

### Software Engineer

Nov 2020 - Jan 2022

Treehouse Internet Group - Seymour, CT

- Provided prompt solutions and proactive troubleshooting support for the internal tools and web apps cutting down the call center team's lead processing time by 5%.
- Improved technical documentation on internal tools and applications to train new and existing team members allowing for team members to spend less time debugging how the tools work.
- Updated and developed automated testing scripts on the Selenium framework to maintain code integrity and save the developer team 30 minutes of testing when relevant code is pushed to production.
- Collaborated with the production team to design and develop new extract, transform, and load (ETL) procedures automating previously hand-written workflows saving user's hours of work quarterly.
- Practiced agile development and continuous integration by working with end users as well as project managers to plan new updates utilizing the 5pm project management software.

### Technical Services Engineer

May 2017 - Jun 2020

Epic Systems - Madison, WI

- Developed and implemented new software functionalities for emergency rooms in MUMPS.
- Worked closely with developers and end users and acted as an integral part of the software development team using iterative development process.

## Projects

### Market Screener

Jun 2021 - Aug 2022

- Developing a Market Screener in Python using the yfinance library to identify equities to invest in for swing trading.

### Sign Language Video Processing

Sep 2016 - Dec 2016

- Developed a program in python to analyze a video of hand-signed letters and translate to text.

### Self-Triage Urgent Care Scheduler

Jan 2016 - Jun 2016

- Developed an application in python to reduce the load on Emergency Rooms by scheduling patients with less serious conditions into Urgent Care centers.

## Skills and Certifications

### FreeCodeCamp Full Stack Certification

Dec. 2019

Languages/Frameworks: PHP, Python, C++, Javascript, JQuery, HTML/CSS, MUMPS, MySQL, SQL, GraphQL  
Angular, Yii2, Bootstrap, Flask