

GARY CHANG

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

Seattle, WA

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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

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

- Lead discussions with Management on the future direction of the Emergency Department and created new workflows that provided better patient documentation and saved user's time.
- Developed and implemented new software functionalities for emergency rooms in MUMPS.
- Adapted a newer Emergency Room billing model for use inside the Epic System resulting in patients being charged more accurately.
- Worked closely with developers and end users and acted as an integral part of the software development team using iterative development process.

Engineering Intern

Jun 2016 - Oct 2016

Camras Vision - Durham, NC

- Developed new glaucoma implant models in SolidWorks to control intraocular pressure leading to decrease in production scrap rate by 30% while maintaining primary functionality.

Projects

Market Screener

Jun 2021 - Current

- 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 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, Javascript, JQuery, HTML/CSS, MUMPS, MySQL, SQL, Angular, Yii2, Bootstrap, Flask