

# KYLE J GLOVER

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## EDUCATION

<b>National University</b> Msc in Computer Science	La Jolla 2019 - 2021
<b>University of California Santa Cruz</b> BA Biology	Santa Cruz 2013 - 2018

## WORK EXPERIENCE

<b>Halo Labs</b> <i>Software Engineer</i>	Millbrae, California Dec 2021 - Aug 2023
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- Designed and implemented full-stack multi-threaded windows applications using C# to control and monitor automated systems in a manufacturing environment.
- Implemented features using C++/OpenCV to help improve data quality by measuring light saturation of pixels for monochromatic images.
- Updated the UI for ParticleVue to handle a 350% increase in data output. This required a redesign of the reporting data as well as user interfaces.
- Debugged and implemented improvements in firmware that led to new features such as I2C capabilities and fixes for legacy software using C/simplicity studio.
- Built the infrastructure for embedded devices of new mechanical designs and improvements that increased the efficiency of instruments by 350% using C++.

<b>Color Health</b> <i>Clinical Laboratory Associate I-II</i>	Burlingame, California Aug 2020 - Aug 2021
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- Perform specimen receipt, accessioning, and sample transfer using laboratory Liquid Handlers such as Hamilton Star, Hamilton Starlets, and Agilent Bravos.

## SKILLS

Languages::	C#, C++, Python, Typescript/JavaScript/HTML/CSS
Frameworks/Libraries::	ASP.NET, RabbitMQ, React.js, Node.js, Express.js, Next.js, Kubernetes, Docker
Database::	MySQL, PostgreSQL, MongoDB
Version Control::	Bitbucket, SourceTree, Git

## PROJECTS

**Plantings:** *JavaScript, Next.js, React.js, Express.js, Kubernetes, Docker, Nginx-Ingress, Nats-Streaming, MongoDB, Skaffold, Bootstrap*

[Github](#)

A simple e-commerce site that was developed using a microservice architecture. On the site a user can sign up, sign in, and post any kind of plant for sale. The website supports a payment service run by the Stripe API. This website is running on a Kubernetes cluster with pods built using Docker containers and is hosted by digital ocean. To assist and develop the Kubernetes Cluster I used Skaffold framework to maintain the workflow for building, pushing, and deploying my application. The frontend was created using React.js and Bootstrap frameworks. The webpages support server-side rendering with Next.js to serve pages to users. To account for downed services I implemented a publisher/subscriber service with Nats-Streaming to retain data for concurrency between services. This repository is connected to my account on digital ocean and will initiate an action whenever there is push/merge to the Master repository using GitHub actions. This application shows my ability to pick up complex tools and use them quickly.

**Coffee Break:** *iOS, Swift UI, Python, Express.js, Node.js, SQLAlchemy, MySQL, Flask*

[Github](#)

An iOS application GUI written in Swift UI. Restful Web API written in python using the flask framework and using the Object relational Mapper SQLAlchemy created and stored data to MySQL database. Stores and displays user constructed Coffee drinks, allowing users to manage and create group orders for coffee drinks. For this Project documentation was written for the OCD, SRS, STP, SDD, and User Manual were developed by my team.