

# CLARK PHAN

www.clarkphan.com

www.github.com/clarkphan

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## EDUCATION

### University of California, San Diego

September 2016 – June 2020 (Expected)

Bachelor of Science in Mathematics/Computer Science

Coursework: Advanced Data Structures and Algorithms, Design and Analysis of Algorithms, Object-Oriented Design, Software System Design and Implementation, Software Tools and Techniques

### UCSD Extension Coding Boot Camp

November 2017 – February 2018

Certificate in Full-Stack Development (250+ Hours of Web Development Training)

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## EXPERIENCE

### Software Engineering Internship

June 2018 – September 2019

*L3Harris Technologies*

- Implemented version control for database in MongoDB for Meteor web application
- Collaborated with Principle Software Engineer to create End-to-End tests, which saved manual testing time
- Created many unit and integration tests using Enzyme, Mocha, and Chai
- Improved upon existing UI by integrating new React.js components into application
- Developed and improved on queries for REST API in Spark Framework, which reduced the number of API calls to the server
- Implemented filtering mechanism to parse bi-directional communication with Web Sockets
- Authored automated testing application for REST API in CLI, reducing manual testing time
- Engaged in an AGILE workflow and attended Scrum/Kanban meetings, discussing issues on Atlassian Jira and Bitbucket Git

### Web Master

June 2018 - Present

*Theta Tau UCSD*

- Primary responsibilities include maintaining organization website and progressive web application
- Won 1<sup>st</sup> place award for Best Website at the 2019 Theta Tau Western Regionals Convention held at UC Irvine
- Maintained a Firebase database with information of hundreds of users
- Collaborated with internal board members, gathering requirements in order to ensure a satisfying user experience on mobile

### Research Assistant

January 2018 – June 2018

*Weibel Lab UCSD*

- Primary responsibilities include developing and designing UI/UX for clients to use
- Built and maintained pipelines to Twitter API, MongoDB, and Machine Learning Algorithm using Node.js and Express
- Modified server code to enable the deployment from local hosting to a cloud platform using Heroku

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## PROJECTS

### Facebook Messenger Bot (CLRK.BOT)

- Built a personal Facebook Messenger bot that can make REST API calls in Node.js
- Developed by daisy-chaining multiple APIs together including: Twitter, Spotify, OMDb, and Google Weather APIs
- Authored reverse geocoding algorithm that retrieves weather data relative to user location

### LeagueTrack

- Managed a team of 3 developers to create a full-stack application used to track a user's statistics in League of Legends
- Set up development workflow for developers by installing ESLint and writing npm scripts
- Created and assigned GitHub issues/milestones for the team and reviewed pull requests

### Project Slimey (HackUCI 2018)

- Built a virtual pet in 36 hours using JavaScript, HTML, CSS, and MongoDB
- Primary responsibilities include maintaining sever-side REST Endpoints and API code using Express.js
- Implemented email functionality that allows users to receive emails of their virtual pet slime's stats via SendGrid's API

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## SKILLS

**Languages:** JavaScript, HTML, CSS, Java, Python, C/C++

**Frameworks/Libraries:** React.js, Redux, Express.js, Bootstrap, Meteor, Spark, jQuery, Socket.IO

**Tools:** MongoDB, Firebase, AWS, MySQL, Git, Heroku, Docker