

# Matthew Lin

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## Experience

### Programation | Software Engineer (Full-Stack Development)

Jun 2020 - Feb 2021 | San Diego, CA

- Technologies: NodeJS, Typescript, ReactJS, ReactNative, ExpressJS, GraphQL, Postgres
- Designed & implemented back-end infrastructure for a custom social media app. Back-end designed with AWS Amplify (NodeJS & TS), DynamoDB & GraphQL
- Implemented front end localization code for educational app to dynamically adjust experience based on system language in ReactNative.
- Redesigned the company's website adding ghost blog integration ([programation.com](https://programation.com))

### Robolink | Summer STEM Camp Instructor

Jun 2019 - Aug 2019 | San Diego, CA

- Instructed STEM summer camp sessions teaching Arduino, RobotC, and Python to high school students
- Wrote automation code and camp educational material using Python, HTML, and Markdown

### Freelance | Software Developer Contractor

Jan 2018 - Jun 2020 | San Diego, CA

- Developed chat bots (NodeJS) as a freelance developer for a social media platform called Discord
- Interacted with various APIs including Google Translate, GoogleSheets, Spotify, etc

## Education

### San Diego Mesa College

Pursuing AA In Liberal Arts & Computer Science

Expected Aug 2021 | San Diego, CA

Credits In Progress/Completed: 51/60

Cum. GPA: 4.0/4.0

### Mission Bay High School

Pursuing High School Diploma

Expected Jun 2022 | San Diego, CA

Cum. GPA: 4.81/4.0

### UCSD Extension

Specialized Certificate In C/C++ Programming

Graduated Sept 2018 | San Diego, CA

## Volunteer

### Kid By Kid & Schoolhouse.world

#### STEM Tutor

October 2020 - Present | San Diego, CA

- Tutoring students across a range of ages in a variety of stem topics such as computer science & math.

## Skills

### Technical

Proficient with:

C/C++ • JavaScript • Typescript • NodeJS • GraphQL  
 ReactJS • React Native • HTML • CSS  
 Git • MongoDB • PostgreSQL • AWS • ExpressJS

Familiar with:

Rust • GoLang • Docker • Svelte • Bash • Python3 • Markdown

### Soft

Strong:

Leadership • Initiative • Resourcefulness • Grit  
 Communication • Cooperation

## Projects

### Portfolio Website | [matthewlin.dev](https://matthewlin.dev)

- Portfolio website built using HTML, MaterializeCSS, and ReactJS
- Features responsive design to create a robust website

### YouTube Educational Channel | Matthew Lin

- Educational content teaching a variety of topics across computer science: <https://youtube.com/matthewlin>
- Content has reached 1000+ individuals

### Game Engine | Fast Engine

- Game engine written in C++ using the SDL graphics library

### Image Processing Tool | QuickProcess

- Image manipulation tool which allows you to apply filters over images built using ElectronJS & OpenCV
- Image processing code written in NodeJS using the OpenCV image process library

## Leadership Experience

### MBHS Entrepreneurship Club

#### Co-Founder & President

Aug 2019 - Present | San Diego, CA

- Led the club in designing, developing, and deploying a digital school communication platform for students in San Diego Unified School District

### FRC Robotics Team 4160

#### Programming & Electrical Division Lead

Aug 2020 - Present | San Diego, CA

- Redesigned the team's website ([team4160.com](https://team4160.com)) overhauling the visual design & layout
- Worked with division mentors and students to write C++ & Python code which controlled the robot and powered vision tracking systems