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# Kyle Wade

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## EDUCATION

**Computer Engineering, B.S.**, University of California, San Diego

**Expected Graduation: June 2024**

GPA: 3.9 / 4.0

La Jolla, CA

Relevant Coursework: Advanced Data Structures and Algorithms, Object-Oriented Programming, Computer Architecture

### Honor Societies:

- [Tau Beta Pi \(TBP\)](#) [Jan 2022 - Present]
- [IEEE - Eta Kappa Nu \(HKN\)](#) [Mar 2021 - Present]

## WORK EXPERIENCE

### Software Engineer Intern

**Expected Start Date: June 2022**

Qualcomm

San Diego, CA

- Will impact **millions of people** through solving embedded, real-time operating system-level issues relating to **5G technology** using C, C++, and Python.
- More to come in the future!

### Instructional Assistant

**Sept 2021 — Dec 2021**

UC San Diego Computer Science and Engineering Department

La Jolla, CA

- Helped **360+ students** by **grading exams**, giving **constructive feedback** with programming assignments, and **holding tutoring sessions** outside of normal class time in a Data Structures and Algorithms class.
- Taught and reviewed concepts such as **binary search trees**, **linked lists**, **stacks**, **heaps**, **hashtables**, and **hashmaps**.
- Received **100% student approval** rating across **100+ one-on-one tutor sessions**.

### Software Engineer Intern

**June 2021 — Sept 2021**

Navlabs

Laguna Niguel, CA

- Developed a **C++ executable** that scans **binary code** from GPS simulators and **converts it** into data readable to other systems.
- Resulted in **200% increased productivity** from company simulators. Executable currently used by company to parse GPS data.

## LEADERSHIP & ACTIVITIES

### Board Officer

**May 2021 — Present**

IEEE - Eta Kappa Nu (HKN) — [Website](#)

La Jolla, CA

- Organized and ran **hackathons**, **ceremonies**, and **industry recruiting events** for hundreds of university students.
- Streamlined new students inducting into the engineering honor society through **conducting technical interviews**.

### Software Developer

**May 2021 — Present**

IEEE - Eta Kappa Nu (HKN) — [GitHub](#)

La Jolla, CA

- Improved and maintained organization-specific programs and websites, such as a member portal where HKN members can **sign in to HKN-specific events**, **log participation in HKN-specific events**, and **store their resumes**.
- HKN software ran with **MongoDB**, **Express.js**, **React.js**, and **Netlify**.

### Team Engineer

**Sept 2017 — June 2020**

FIRST Robotics Competition - Team 5199

San Juan Capistrano, CA

- Learned and used **Python** and **JavaScript** through constructing a team robot every year in a fast-paced environment.
- Competed in FIRST Robotics Competition, achieving **1st out of 56 teams** in the 2019 Los Angeles Regionals and **1st out of 42 teams** in the 2019 Ventura Regionals. Competed in the **World Championships** in 2019.

## PROJECTS

### Hobbies Inc.: Online Hobby Forum — [Website](#) / [GitHub](#)

- Collaborated with 5 other developers to build a website that connects users to other like-minded people through similar interests.
- Gained experience in **JavaScript**, **React.js**, **CSS**, **Netlify**, **Heroku**, **MongoDB**, and **Rest API**.
- Showcased in front of the Association for Computing Machinery at the University of California, San Diego in front of **50+ spectators**.

### Synthful: Piano Transcription Mobile App

- Developed a mobile application in Android Studio using **XML** and **Java** that allows the user to play their piano piece into their device's microphone, in which the app converts the audio into digital sheet music.
- Learned how to use a **Fast Fourier Transform** to map the notes on a frequency versus time graph, even when multiple notes are played simultaneously.

## TECHNICAL SKILLS

**Languages:** Java, C, C++, CSS, HTML, XML, Bash, PowerShell, JavaScript

**DevOps:** Docker, Heroku, Netlify, MongoDB

**Tools/Frameworks:** Linux, Git, GDB/Valgrind, JUnit, Makefiles, React.js, Express.js, Rest API, Node.js, PostgreSQL