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   **June 2022 — Present**
Qualcomm   San Diego, CA

- Impacting **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, a yearly international high school robotics competition where robots battle each other while accomplishing tasks such as scoring balls into goals, placing inner tubes onto racks, and balancing robots on balance beams.
- Achieved **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