# TUNG DOAN

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#### **OBJECTIVE**

Student with over 1 year of project and startup experience, seeking a 2021 summer internship.

#### **EDUCATION**

#### Bachelor of Math/Computer Science, UC San Diego

Expected 2023

B.S. Mathematics - Computer Science

GPA: 3.93

Relevant Coursework: Data Structures & Object-Oriented Programming, Software Tools & Techniques, Graph Theory, Programming Abstractions (Stanford), Machine Learning (Coursera)

#### **SKILLS**

Languages Java, Python, HTML/CSS/JS, Typescript, MATLAB, C++

Frameworks/Libraries React, Express.js, MongoDB, Tensorflow, Electron, Puppeteer, Android, Arduino

Services Github, Jupyter Notebook, Google Cloud, AWS, Postman

#### **PROJECTS**

DodgePOG July - September 2020

**Electron** app that advises players whether or not to leave their League of Legends game based on predicted win rates. Front-end interface constructed with **HTML** and animated with **jQuery**. Neural network written with **Keras** in **Jupyter Notebook** that combines team composition and player win rates to produce a 60% prediction accuracy in a game designed to be balanced. Additional data web-scraped using **Puppeteer**.

Spotiqueue August 2020

Small project in **Typescript** that allows hosts to create rooms and have guests text a room code with a Spotify song link to be added to the host's queue. Created an **Express** server for **Node.js** with endpoints that allow the Twilio API and the Spotify API to interact with one another. Connected to **Google Firebase** for data storage and user authentication.

Mafia Online March - July 2020

Online version of the party game Mafia. Developed a dynamic front-end with **React** and implemented game logic such as player roles and votes with **Javascript**. Utilized **Google Firebase** to keep track of active games and status of players over multiple connections. Deployed on **Heroku**.

Seascape August 2019

Co-developed an alternative to UCSD's current website for course evaluations as a part of SPIS. Integrated a machine learning algorithm with **sci-kit learn** in **Python** to predict future course rating and grades based on existing data. Deployed webapp on **Heroku**.

#### **EXPERIENCE**

Research Intern August 2020 - Present

## Smartfin @ Engineers for Exploration

La Jolla, CA

- Creating an surfboard attachment to collect data in coastal waters
- Developing a dead reckoning algorithm with Anaconda and Jupyter Notebook
- Creating a **React** website to display data collected from Smartfins

## Mobile Development Intern

December 2019 - August 2020

La Jolla, CA

- Skinalytics
  Pushed five branches from development to production
  - Integrated DynamoDB, Elasticsearch, and S3 for product querying and retrieval
  - Optimized multiple activities throughout the app using Java and Android XML

# Student B:

August 2019 La Jolla, CA

#### SPIS @ UC San Diego

- Summer Program for Incoming Students
- Learned Python and Arduino, and industry skills such as Github
- Created and presented Seascape to an audience of professors