JUSTIN **WANG**

BIO

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EDUCATION

DUKE UNIVERSITY
PRATT SCHOOL OF ENGINEERING

Class of 2019
B.S.E. Electrical & Computer Engineering
B.S. Computer Science
GPA: 3.6

COURSEWORK

COMPUTER SCIENCE

570: Artificial Intelligence
527: Computer Vision
330: Algorithm Design
316: Database Systems
310: Operating Systems
308: Software Design

ELECTRICAL ENGINEERING

459: Embedded Systems
350: Digital Systems
331: Microelectronic Circuits
250: Computer Architecture

SKILLSET

LANGUAGES

Java	HTML5
C	CSS3
C++	JavaScript (ECMA6)
C#	SQL (MySQL)

TECHNOLOGIES

GIT	React & Redux
Unix	Photoshop
WebGL (three.js)	Illustrator

ACTIVITIES

DUKE IEEE   **TEDx DUKE**

Duke UNIVERSITY | PRATT SCHOOL *of* ENGINEERING

EXPERIENCE

AMAZON ROBOTICS   NORTH READING, MA
SUMMER 2018

Software Development Engineer (SDE) Internship
Vishnu Ayyagari

• Developed a web-based tool for developers (using React and SpringMVC) that facilitates the development of new robotic vehicle movement in Amazon's warehouses.

• Worked under the robotic movement division on a team responsible for robotic navigation and path planning.

@WALMART LABS   SAN BRUNO, CA
SUMMER 2017

Front End Software Engineering Internship
Rajkumar Venkat | Sanjay Shahri

• Developed a real-time product display experience as part of Sam's Club's revamping campaign.

• Used Electrode (in-house JS framework) and WebGL (Three.JS) to create a 3D render of the product that can be customized to the customer's liking.

FRANKLIN LABORATORY   DUKE UNIVERSITY

Laboratory of Electronics from Nanomaterials (2017-2018)
Dr. Aaron Franklin

• Characterized and analyzed low-cost printed bio-transistors for detection of malnutrition through the measurement of Leptin concentration in blood samples.

BASS CONNECTIONS   DUKE UNIVERSITY

Ocean Energy Harvesting Team (2016-2017)
Dr. Doug Nowacek | Dr. Brian Mann

• Developed and fabricated a hybrid triboelectric generator (self-sufficient energy harvesting) to power a bycatch warning system for small fishing industries.

VARGAS RESEARCH LABORATORY   RICE UNIVERSITY
SUMMER '14 & '16

Research Assistant & Software Developer
Dr. Francisco Vargas

• Developed a Java plugin (ImageJ API) to analyze and extract information from microscope images (e.g. particle density, particle size).
Reduced process time for sample analysis by automating the process.

• Developed a Visual Studio Tools for Office application in Excel to automate the process of graphing various properties of oil samples.

PERSONAL PROJECTS

DUKEATS   PROTOTYPE WEBSITE

Developed a website with friends that stores and publishes listings for all food options available to students on Duke's campus. Users can query based on a variety of options (cuisine type, user ratings, etc.) and write reviews for any item listed in the database (see GitLab).