JUSTIN **WANG**

CONTACT

5019 Raven Forest Ln. Katy, TX 77494

justin.wang@duke.edu

(281) 615 8681

https://gitlab.com/jxt_wang

https://www.behance.net/jxt_wang7ccb

https://www.justintwang.com/

EDUCATION

Duke University

B.S.E. Electrical & Computer Engineering
B.S. Computer Science

- CS 308: Software Design & Development
- CS 316: Database Systems
- CS 330: Design & Analysis of Algorithms
- CS 527: Computer Vision

- ECE 250: Computer Architecture
- ECE 230: Microelectronics
- ECE 280: Signals and Systems

SKILLS

Programming

HTML5, CSS3, ES6 ●●●●○

MATLAB, Assembly ●●●○○

Java, C, C++, C# ●●●●○

Server (SQL) ●●◐○○

Design

Photoshop, Illustrator ●●●●○

Blender (CAD) ●●◐○○

Technologies

> WebGL (three.JS)
> React, Redux
> Git, LaTeX

ACTIVITIES

DUKE IEEE
Graphics Design & Member
2015-2017

TEDx DUKE
General Board & Graphics Design Team
(2016-2017)

Duke UNIVERSITY | PRATT SCHOOL of ENGINEERING

EXPERIENCE

@WALMART LABS (WALMART ECOMMERCE) — SAN BRUNO, CA

Front End Software Engineering Internship (Summer 2017)
Rajkumar Venkat | Sanjay Shahri

- Developed a 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 product page for the cake customization project.
- Goal: Provide users with a real-time render of a product that can be customized to the customer's liking.

VARGAS RESEARCH LABORATORY — RICE UNIVERSITY

Research Assistant & Software Developer (Summer 2014, 2016)
Dr. Francisco Vargas

- Performed asphaltene precipitation analysis on crude oil samples.
- Developed a Java plugin (ImageJ API) to analyze and extract information from microscope images (e.g. particle density, particle size).
- Developed a Visual Studio Tools for Office application in Excel to automate the process of graphing various properties of oil samples.
- Built a server to perform remote oil sample calculations.
- Goal: Reduce process time for oil sample analysis through automation

BASS CONNECTIONS — DUKE UNIVERSITY

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

- Developed and fabricated a hybrid triboelectric generator for self-sufficient energy harvesting.
- Goal: Power a bycatch warning system and cellular service extender for small fishing industries.

Project Poster: https://drive.google.com/open?id=0B8Z9qaCNN4QZX0xwS1dxSW5zazg

FRANKLIN LABORATORY — DUKE UNIVERSITY

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

- Characterization of low-cost printed bio-transistors.
- Goal: Measure Leptin concentration in blood samples to detect for malnutrition.

PERSONAL PROJECTS

BYE BYE, BIRDIE — APP MOCKUP

Powered by citizen science, Bye Bye Birdie is a mobile app designed to provide users with a platform for sending birding reports to the popular birding database eBird (see Behance).

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).