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Jack O'Donnell

EDUCATION

University of Illinois at Chicago – *Chicago, IL*   Graduation: May 2020
- Bachelor of Science in Computer Science
- Sys-admin and Director of Outreach for Association for Computing Machinery (ACM)

COMPUTER SKILLS

Programming Languages
Knowledge of: Javascript, C/C++, F#, C#, SQL, Java, HTML , CSS

Software
Experienced in: Node.js, Express.js, React Native, Websockets, MongoDB, Angular, Jhipster, Springboot

Operating Systems
Competent with: Microsoft Windows, MacOS , Linux

TECHNICAL PROJECTS

- Created a privately hosted global chat application made using Socket.io, Node.js and Express.js. This created an environment in which users could instantly chat with one another across the world.
- Created a C++ program with a mySQL database that held Netflix ratings, names, usernames. Along with a UI where a user can input a new rating and update the average rating of a show. Also, provided additional functionality such as lookup functions and averages.

- Created a task manager with Node.js, Express.js, mlab and Angular. Allowed users to delete and create tasks from the mongodb database.
- Created a predictive model using pandas, SODA chicago's open data api and sklearn to predict at what time and where in the city a crime will take place. This algorithm worked at a 95 percent accuracy rate.
- Created a RC car from scratch that was controlled by the angle of your hand.

COMPETITIONS
- 1st place Winner of the 2019 infosys Instep hacks competition.

EXPERIENCE

Software Engineer Intern, *Infosys at Bangalore India*   May 2019-
- Worked with Angular, Springboot, Jhipster to modernize a parking solution application. That was supposed to help control a company's parking solutions by counting cars using computer vision and providing billing and user info to the company.   August 2019
- After the UI was modernized, I was tasked with providing telemetry services for the project using sunbird telemetry.

Research Assistant , *Electronic Visualization Laboratory and BIOE Laboratory at UIC*   April 2018 -December 2019
- Created an application using Node.js, Express.js, and Mongodb to connect to and control IOT devices in a smart classroom called Continuum.
- In the Smart Classroom there were multiple Kinects as well, I updated a previous application to show the kinect data in a more meaningful way.
- In the BIOE lab, I was designated to create an application using React natvie that would take input from a smart retainer to control smart wheelchairs and IOT devices.

Teaching Assistant for CS 361 and CS 494- Systems Programming and Wearable Technology, *at UIC*   August 2018 — December 2018 and August 2019- December 2019
- Assisted students in topics such as: Virtual memory and memory management; code optimization; system-level I/O; concurrency: processes, threads, synchronization, circuits.
- Assisted in lab activities and helped clarify concepts to students.
- Held office hours to help students understand concepts and progress them past obstacles that hinder them in projects. Also, monitored piazza to help students who couldn't make it to office hours.