

EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING 2020

GPA: 3.04 | Technical Core: Software Engineering

EXPERIENCE

IBM | SUPPORT ENGINEER INTERN

May 2017 to Current | Austin, TX

- Closed **15** problem management support tickets in **59 days** with many involving high profile customers using our product as a mission-critical application by working as a L2 Support Engineer for IBM Cloud's Business Process Manager platform;
- Simultaneously engineered and developed an **enterprise software solution (8 weeks)** in **Java** with the tech lead and other interns that can entirely solve a subset of common problems in product upgrades and migration;
- Utilized opencsv, JCommander, and Java EE libraries to implement a CLI that processes data from CSV files and optimizes REST calls made to application;
- Implemented JUnit tests, log and trace file generation, a git-like help dialog and smart error handling to make the solution as intuitive as possible;
- Underwent the agile process with bi-weekly SCRUMs and weekly playbacks where we simulated our target clients' scenarios and received feedback.

PERSONAL PROJECTS

CONOIN | SECOND PLACE ENTRY

September 2017 | Innovation Challenge by ConocoPhillips in Bartlesville, OK

- Developed ethereum blockchain contracts in **Solidity** and a back-end server in **Node.js** with **Express** for the project with three other participants.
- Coded functions in the back end using the **Web3** API that allow the server to send transactions to the blockchain and to very quickly read data contained in the blockchain.
- Created the approvals page, a part of the front end coded with the **pug** package that catches events sent from the blockchain, stores it in a **MongoDB NoSQL database** and displays it in a table.

SEEGREEN | BEST ENVIRONMENTAL HACK - FOURTH PLACE OVERALL

April 2017 | EARTHACK by HackDFW in Dallas, TX

- Created the back-end server using **Python with Flask** for a Hackathon project (**fourth place out of eighty teams**) created with three other participants;
- Communicated with chatbot and computer vision developers periodically about which APIs needed to be implemented, at which endpoint, and which pieces of information they expect to send and receive;
- Implemented functions used to interact with IBM's **Bluemix** API used for Natural Language Processing (NLP) and the **MeaningCloud** API used for topic categorization (machine learning);
- Trained the **MeaningCloud machine learning** model to categorize objects as compostable, recyclable, or landfill;
- Responsible for breaking the development of the application into manageable parts (chatbot, computer vision module, front end, back end) and facilitating and debugging the integration process.

SKILLS

PROGRAMMING

PROFICIENT:

Java • Python

FAMILIAR:

HTML • CSS • JavaScript
Android

EXPOSURE:

Solidity • Typescript • C++

FRAMEWORKS

EXPOSURE:

Node.js • Flask • Angular2
React.js

TOOLS

PROFICIENT:

Windows • Atom • Git • Eclipse

FAMILIAR:

Unix (OS X) • Linux • Vim

AWARDS

FALL 2017

2nd / 4 Innovation Challenge
(Blockchain) - ConocoPhillips

SPRING 2017

1 of 37 Software Engineering
Summit - Capital One
4th/80 EARTHACK - HACKDFW
2nd/19 MusicHacks - UT Austin

FALL 2016

1 of 15 Cert. in Leadership Dev.
1 of 8 AP Scholar with Distinction

VOLUNTEERING

MADLABS • ANDROID DEVELOPER

- Contributed **XML** and **Java** code to the MAD organization's android application.

ACTIVITIES

STUDENT ORGANIZATIONS

Mobile Application Development
Robotics and Automation Society
UT IEEE Chapter