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David Z. Chen

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EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

B.S. in Electrical and Computer Engineering | May 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 IBM's Business Process Manager as a mission-critical application;
- 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;
- Created a CLI that processes data from CSV files and optimizes REST calls made to application by utilizing opencsv, JCommander, and Java EE libraries;
- Implemented 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.

PERSONAL PROJECTS

CONOIN | Second Place Project

Sept. 2017 | ConocoPhillips Innovation Challenge in Bartlesville, OK

- Developed ethereum blockchain contracts in **Solidity** and a back-end server in **Node.js** with **Express** for the project with a team of four.
- 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

April 2017 | EARTHACK by HackDFW in Dallas, TX

- Created the back-end server using **Python with Flask** for the project **(fourth place out of eighty teams)** created with a team of four;
- 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.
- Communicated with chatbot and computer vision developers periodically about which APIs needed to be implemented, at which endpoint, and with what 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;

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 Dev.
Robot and Automation Society
UT IEEE Chapter