

Chase B. McDermott

JUNIOR - COMPUTER SCIENCE

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Education

Texas A&M University

B.S. IN COMPUTER SCIENCE (CSCE)

- Department GPA: 3.8/4.0
- Minor in Business and Mathematics

College Station, TX

Expected Graduation: Dec. 2019

Experience

Texas A&M College of Engineering IT Department

APPLICATION DEVELOPER

- Collaborated with a team of 4 to develop Ruby on Rails web applications using the Agile development process for use by the entire College of Engineering including over 2000 faculty and 18,000 students.
- Designed and implemented an application to manage faculty requests for hiring new employees using Ruby on Rails, Bootstrap, and jQuery, with a RESTful API.
- Implemented efficient sorting, searching, and pagination on both front-end and back-end for over 4000 database entries, utilizing various Ruby Gems and AJAX requests.

College Station, TX

May 2017-Present

Texas A&M College of Engineering

PEER TEACHING ASSISTANT

- Assisted Professor and Graduate Assistant with class grading and reviewing.
- Collaborated with other Peer Teachers to assist students with class activities as needed.

College Station, TX

Aug. 2016 - May 2017

Skills

Languages

Python (proficient) · C/C++ (proficient) · Ruby (familiar) · Javascript (familiar)

Tools and Frameworks

Ruby on Rails · Flask(Python) · Git · HTML5/CSS3

Personal Projects

Course Planner

[HTTP://CHASEMCD1745.PYTHONANYWHERE.COM/](http://chase1745.pythonanywhere.com/)

- Utilizes an algorithm to efficiently find all possible schedules based on a varying amount of inputted course and sections.
- Designed and built from the ground up as a personal project because this is something that I cannot find and would be extremely useful for students.
- Created the application using the Flask framework, as well as various Javascript libraries.

Python · Flask

Ethereum Private Blockchain Application

LINK NOT AVAILABLE

- Created with a team of four at the 2017 ConocoPhillips Innovation Challenge as a solution to efficiently and securely store oil rig production data, placing 2nd in the competition.
- Utilizes the Ethereum blockchain to store well production data using smart contracts written in Solidity.
- Integrated with a web application written in Node.js to import the data from the blockchain using the Web3 API and display pertinent information such as statistical analysis.

Solidity · Node.js

Leadership Experience

Memorial Student Center Freshmen in Service and Hosting

ASSISTANT DIRECTOR

- Organized and oversaw planning and execution of large-scale events and programs.
- Facilitated work among sub-committee of freshmen that I lead in two different sub-committees: Day-Of, and later Marketing.

Oct. 2015 - May 2017

Activities

ConocoPhillips Innovation Challenge - 2nd Place

Fall 2017

Texas A&M Computing Society

Sep. 2015 - Present