

# Chase B. McDermott

SENIOR - 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

*Expected Graduation: Dec. 2019*

*College Station, TX*

## Skills

### Languages

Python · C/C++ · Javascript · Java · Ruby

### Tools and Frameworks

Ruby on Rails · React.JS · Redux · Node.JS · Flask · HTML5/CSS3 · SQL · NoSQL DB  
Agile · Unit Testing · Git · Serverless Architecture (AWS Lambda) · Other AWS Tools

## Experience

### Audible, an Amazon Company

*June 2019 - August 2019*

SOFTWARE DEVELOPMENT ENGINEER INTERN

*Newark, NJ*

- Worked on the Digital Asset Management team to develop a new view to easily allow operators to quality control check metadata and assets, used by hundreds of Audible Operators around the world daily.
- Developed new API endpoints in a Spring (Java) back-end application for uploading images to S3, increasing operator's efficiency by up to 300 products per day.
- Collaborated with Content Life-cycle managers to design user interface.
- Implemented user interface design using React and Redux, creating over 15 new React components throughout the Summer.

### J.P. Morgan Chase & Co.

*June 2018 - Aug. 2018*

SOFTWARE ENGINEERING INTERN

*Houston, TX*

- Developed a modular, internal web application in Python for use by the Regulatory and Control team with data visualization, simple and fast extendability.
- Upgraded existing application within firm's proprietary risk management and trading platform by adding features, enhancing user experience, and optimizing data throughput, written in Python, utilizing a NoSQL database.
- Communicated with co-workers internationally to discuss and lay out business requirements and specifications.

### Texas A&M College of Engineering IT Department

*May 2017 - Present*

CO-LEAD APPLICATION DEVELOPER

*College Station, TX*

- Lead team of 5 developing 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.
- Corresponded closely with business office to interpret business requirements and translate them into software specifications for team.
- Significant exposure to various AWS tools such as EC2, Elastic Beanstalk, Lambda, S3, Cloudfront, and RDS.
- Designed and implemented an application to manage faculty requests for hiring new employees using Ruby on Rails, MySQL, Bootstrap, and jQuery, with a RESTful API.

## Projects

### Solidity Contributions (Open-Source)

*C++ · Solidity*

[HTTPS://GITHUB.COM/ETHEREUM/SOLIDITY](https://github.com/ethereum/solidity)

- Multiple contributions to Solidity, the smart contract programming language used to interact with the Ethereum blockchain. Solidity is Written in C++ and used by thousands of smart contract developers.
- Contributed Pull Request that made data locations for function parameters required. This was a breaking change for version 0.5.

### Course Planner

*Python · Flask*

[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.

## Leadership Experience

### Memorial Student Center Freshmen in Service and Hosting

*Oct. 2015 - May 2017*

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.