Chase B. McDermott

SENIOR - COMPUTER SCIENCE
171 Forest Dr. College Station, TX

(903) 279-7569 | chase.mcdermott12@gmail.com | http://chase1745.github.io | chase1745

Education

Texas A&M University   *Expected Graduation: Dec. 2019*

B.S. IN COMPUTER SCIENCE (CSCE)   *College Station, TX*

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

Skills

Languages   Python (proficient) · C/C++ (proficient) · Javascript (proficient) · Ruby (some experience) · Java (familiar)

Tools and Frameworks Flask(Python) · Ruby on Rails · Node.JS · jQuery · HTML5/CSS3 · SQL · NoSQL DB · Git · Jira

Unit Testing · Serverless Architecture (AWS Lambda) · Other AWS Tools · Solidity Smart Contracts

Experience

J.P. Morgan Chase & Co.   *June 2018 - Aug. 2018*

SUMMER TECHNOLOGY ANALYST (SOFTWARE ENGINEERING)   *Houston, TX*

- 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.
- Developed a modular, internal web application in Python for use by Regulatory and Control team with data visualization, simple and fast extendability, and immediate business impact.
- Communicated with co-workers internationally to discuss and lay out business requirements and specifications.
- Troubleshooted multiple production application issues affecting daily business operations by fixing bugs, adding features, and briefing the business operations team on said issues.
- Remodeled and strengthened existing unit tests for large scale applications used by firm's traders and supervisors.

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.
- Headed design for a serverless API written in Node.JS on AWS Lambda with a MySQL database for an asset tracking web application, saving costs by up to 200% compared to the groups other applications run on Elastic Beanstalk.

Projects

Solidity Contributions (Open-Source)   *C++ · 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.
- Added new tests and modified older tests to comply with new feature.
- Gained experience with a production level, large-scale C++ code-base, and extensive experience with Git.
- Contributed to open-source Solidity library OpenZeppelin, and the Solidity compiler Javascript binding, Solc-js.

Course Planner   *Python · Flask*

HTTP://CHASEMCD1745.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.

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.