

MIR AHMED

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🎓 education

UNIVERSITY OF FLORIDA, *College of Engineering*

B.S. in Computer Science,

Expected: May 2020

👛 relevant experience

CAPITAL ONE | Data Engineering Intern

June 2019 – August 2019

- Created an API for real-time streaming data that removes the development of duplicate data consumption code to speed up developer velocity across Capital One's engineering teams
- Learned how to use Spark, Kafka, and Amazon Web Services to perform ETL processes to transfer code from source to Kafka to AWS S3 for data analysis efforts

MOZILLA | Web Assembly Intern

May 2018 – August 2018

- Worked on the Cranelift code generator to convert Web Assembly code into Machine Code
- Implemented the Reference Type for the Cranelift compiler IR in a two-member team
- Researched and created live value retrieval instructions for use by Firefox's JS engine

CISE DEPARTMENT – UNIV. OF FL (UF) | Software Developer

September 2017 – December 2017

- Utilized Sketch to design views for UF's Teaching Assistant Application System
- Created user stories using Pivotal Tracker targeted towards UI/UX improvements
- Employed Agile methodology and the MEAN Stack to complete frontend tasks with a team of six developers

🔧 projects

SPEECH ASSISTANT | Node.js, Python

- Utilized Slack's Events API with Google's Speech-to-Text & Text-to-Speech APIs to create a voice-controlled personal assistant for accessibility purposes
- Experimented with child processes to connect Python scripts with the overall Slack bot application

COOKIN' READER | Swift

- Created an iOS application that allows users to input recipe ingredients and steps to be read out aloud using AVFoundation and AVSpeechSynthesizer
- Utilized Realm Software to persist recipe data between application launches

SPATIALIZE MUSIC TRACKS | Python

- Developed an application that manipulates audio and renders it in 3D space relative to the user
- Researched Head-Related Transfer Functions (HRTFs) to achieve the 3D audio effect via headphones

💻 skills

- **Languages:** C++, HTML/CSS, Objective-C, Swift, C#, JavaScript, Java, Python, Rust
- **Technologies:** MongoDB, Firebase, Kafka, Amazon Web Services (S3, Lambda, EC2)