

Matthew R. McBrien

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OBJECTIVE Seeking a position as a software development engineer that will leverage my studies as a graduate student and my experience at Amazon Web Services in order to help design and build highly scalable and available systems.

EDUCATION **Georgia Institute of Technology**
Candidate for Master of Science, Electrical and Computer Engineering, May 2020

Georgia Institute of Technology
Bachelor of Science, Computer Engineering, December 2018

- G.P.A. 3.97/4.0
- Graduated with Highest Honors

EXPERIENCE **United Technologies Corporation - Predikto** Atlanta, GA
QA Engineer Jan 2020 - May 2020

- Wrote test code for new features of data science application and expanded tests to ensure stability of ML deployments.
- Created daily report of test results running in AWS to increase transparency.

Amazon Web Services - Lambda Seattle, WA
Software Development Engineer Intern Summer 2018 & Summer 2019

- Prototyped and designed new architecture that allows for polled events to be propagated to other AWS destinations.
- Upgraded internal AWS Lambda architecture to reduce latency for customers when creating new event source mappings for stream-based event sources.
- Created system for measuring customer-centric latency which showed a 91% reduction as a result of new architecture.

Georgia Institute of Technology - ECE Atlanta, GA
Graduate Teaching Assistant Spring & Fall 2019

- Spring 2019 - Dr. Conte's Advanced Computer Architecture: Designed C++ projects that cemented concepts such as caching, superscalar design, and cache coherency.
- Fall 2019 - Dr. Hamblen's Embedded Systems Design Lab: Ran embedded systems lab, aided in implementation of students' labs and design of final students' designs.

SKILLS

Java

- *Classroom* and *Professional* experience.
- Designed internal AWS architecture to respond to real-time customer events at any scale.

Python

- *Classroom* and *Professional* experience.
- Designed internal tools at Procter & Gamble to increase productivity and automation.
- Created test code at UTC for QA of data science applications and machine learning models.

Others

- **Relevant Graduate Courses:** Computer Network Security, Statistical Machine Learning, Digital Speech Processing.

INTERESTS **Running**

- NCAA Division I Cross Country and Track & Field athlete for Georgia Tech.

Game Design

- Designed games using GameMaker, PyGame, and Javascript.
- My first [Javascript game](#) is live on my website.

Reading

- Recently completed *Infinite Jest*!