

# 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** **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 2019

- Dr. Conte's Advanced Computer Architecture: Designed C++ projects that cemented concepts such as caching, superscalar design, and cache coherency.

**Procter & Gamble - Baby Care** Cincinnati, OH  
Product Supply Engineer Intern Summer 2017

- Created a VB.NET program to export data from a large XML database to a human readable spreadsheet, resulting in increased efficiency when designing new products.
- Developed program to automate transfer of design information to line data, rolled out technology to three major manufacturing plants.
- Worked with engineers to plan new file management system for product designs and developed application to aid in updating of internal files.

**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.

**Others**

- C, C++, MatLab, Raspberry Pi, Mbed, Unix.
- **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*!