Matthew R. McBrien

1234 Main St, Home Town, A State, USA — notmyrealemail@mailinator.com — mmcbrien.com — U.S. Citizen

EDUCATION

Georgia Institute of Technology — Atlanta, GA
Master of Science, Electrical and Computer Engineering — May 2020

Georgia Institute of Technology — Atlanta, GA
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 II — Sep 2021 - Present
Software Development Engineer I — Jul 2020 - Sep 2021

- Led roll-out for new service supporting all Lambda asynchronous invocations. New service drove agility, utilization, and availability wins across multiple Lambda services.
- Designed and implemented back-off mechanism to reduce noisy neighbor pain point in asynchronous invocation architecture.
- Researched and rolled-out improvement to Lambda control plane, reducing customer-experienced latency by 30+ seconds.
- Drove operational improvements for team in tooling, deployments, and monitoring.

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 guided final students' designs.

SKILLS

Languages - Java, Python, Typescript, GoLang, Bash
Tools and Frameworks - AWS (Lambda, DynamoDB, S3, EC2, ALB, etc.), CDK, Guice, Spring
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

- Ask me about *Infinite Jest*!