

Matthew R. McBrien

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EDUCATION	Georgia Institute of Technology Master of Science, Electrical and Computer Engineering	Atlanta, GA May 2020
	Georgia Institute of Technology Bachelor of Science, Computer Engineering <ul style="list-style-type: none">• G.P.A. 3.97/4.0• Graduated with Highest Honors	Atlanta, GA December 2018
EXPERIENCE	Amazon Web Services - Lambda Software Development Engineer II Software Development Engineer I <ul style="list-style-type: none">• 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.	Seattle, WA Sep 2021 - Present Jul 2020 - Sep 2021
	United Technologies Corporation - Predikto QA Engineer <ul style="list-style-type: none">• 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.	Atlanta, GA Jan 2020 - May 2020
	Amazon Web Services - Lambda Software Development Engineer Intern <ul style="list-style-type: none">• 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.	Seattle, WA Summer 2018 & Summer 2019
	Georgia Institute of Technology - ECE Graduate Teaching Assistant <ul style="list-style-type: none">• 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.	Atlanta, GA Spring & Fall 2019
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 <ul style="list-style-type: none">• NCAA Division I Cross Country and Track & Field athlete for Georgia Tech.	
	Game Design <ul style="list-style-type: none">• Designed games using GameMaker, PyGame, and Javascript.• My first Javascript game is live on my website.	
	Reading <ul style="list-style-type: none">• Ask me about <i>Infinite Jest</i>!	