Matthew A. McAuliffe

Cell Phone: (727)644-5049   Email: mcauliffem@icloud.com

LinkedIn: https://www.linkedin.com/in/matthew-mcauliffe-878124217

PROFESSIONAL EXPERIENCE

Amazon | Software Development Engineer 1 / AWS Aurora PostgreSQL   *May 2020 – May 2022*

Architected tests and collected metrics defining the lower boundary of memory consumption necessary for a scalable database engine

- Collaborated across teams of engineers to lower the overall engine binary memory footprint.
- Significantly reduced cost for customers with inconsistent workloads by implementing a database state that swapped memory to disk, minimizing memory use when there is no active workload.

Investigated and mitigated time sensitive customer issues during on-call DevOps shifts

- Identified and solved issues using data from core dumps, logging, and metrics from the time of the failure
- Communicated with customers to explain the issue, provide any action needed on their part, and ultimately resolve the issue

Amazon | Software Development Intern | AWS Aurora PostgreSQL   *May 2019 – August 2019*

Implemented a means of automatically logging memory metrics during out of memory situations. This facilitates easy diagnosis and data collection, reducing impact to on-call technicians and freeing up time for actionable issues.

EDUCATION

Georgia Institute of Technology | College of Computing Bachelor of Science | Computer Science

Atlanta, GA | August 2016 - December 2019

Concentration in Intelligence and Devices
Overall GPA 3.9, Major-specific GPA 4.0

Key Class Topics:

Data Structures and Algorithms, Systems design, Mapping and Planning, Game AI, Android Development, Linear Algebra

Leadership and Involvement:

Outdoor Recreation at Georgia Tech (ORGT) White Water Kayaking Instructor, RoboJackets (robotics club) member

PROGRAMMING LANGUAGES AND SKILLS

Programming Languages: C(expert) | Python(expert) | Java(proficient) | SQL(proficient) | C#(beginner)

Skills: Databases | Machine Learning | Robotics | Game AI | Git | JIRA | CI/CD