Calen Robinette

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WORK EXPERIENCE

Dell Technologies **Aug. 2021 – Present**

Software Engineer 2

Remote, USA

- Led the successful refactoring of a critical microservice, migrating from JDBC to JPA framework, resulting in enhanced system efficiency and maintainability.
- Co-created and executed comprehensive performance tests and measurements using Prometheus, contributing to the optimization of critical system components.
- Developed RESTful APIs for Client Management Services in Java using the Spring framework, applying best practices for scalable and maintainable solutions.
- Acquired cross-functional expertise in DevOps methodologies, specializing in the maintenance and optimization of a Jenkins CI/CD pipeline.

Georgia Institute of Technology **Jun. 2020 – May 2021**

Graduate Teaching Assistant

Remote, USA

- Mentored over 300 students each term in the High Performance Computer Architecture course.
- Reduced project grading time by 20% through the creation of Python grading tools.
- Assisted with grading code written in C++, fostering a collaborative learning environment.

EDUCATION

Georgia Institute of Technology **June, 2021**

MS, Computer Science *Atlanta, GA*

- Specialized in Computer Systems with coursework in Distributed Systems, High-Performance Computing, and High-Performance Computer Architecture.

  COURSEWORK HIGHLIGHTS:
  - **Distributed Systems:**
    - Successfully implemented synchronicity/agreement protocols, including Paxos, using C++ and gRPC, showcasing proficiency in designing and implementing distributed systems.
  - **High-Performance Computer Architecture:**
    - Explored intricacies of CPU instruction pipelines and caches, conducting in-depth measurements to assess the efficiency of diverse systems. Gained insights into optimizing computer architecture for performance.
  - **High-Performance Computing:**
    - Designed and executed large-scale sorting algorithms using CUDA, demonstrating hands-on experience in leveraging GPU parallelism for high-performance computing applications.

TECHNICAL SKILLS

- **Programming Languages:** Java, C/C++, Python
- **Technologies:** Jenkins, Prometheus, Java Spring Framework, CUDA, gRPC, Git, Linux, Windows, HTML