Erdun E

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Software engineer with 2 years of big-tech experience at Amazon (AWS) looking for summer 2025 internships

EDUCATION

Northeastern University, Khoury College of Computer Sciences (Miami, FL) *Expected May 2026*
Master of Science in Computer Science *GPA 4.0*

University of Massachusetts Lowell, Kennedy College of Sciences (Lowell, MA) *February 2021*
Bachelor of Science in Computer Science Minor Asian Studies, Dean's List for 2 Semesters

WORK EXPERIENCE

Amazon Inc. *August 2021 - July 2023*
Software Development Engineer: Amazon Web Services Boston, MA
- Played a key role in 3 Log-Structured Replication (LSR) release projects on the EBS Server LEGO platform.
- Conducted qualification tests and performance evaluations for over 10 new firmware versions and 6 disks, saving over $30M in purchasing costs by identifying high-performance, cost-effective components (e.g., Micron7400 8TiB)
- Managed 24/7 on-call responsibilities for 4+ weeks, resolving 180+ severity level 2 tickets and assisting in two LSE incidents, ensuring system stability and customer satisfaction.
- Standardized performance testing for new disk and firmware versions across 4 ASH server platforms, creating baseline metrics and an onboarding wiki that accelerated training for new hires.
- Spearheaded a long-term optimization initiative, developing comprehensive guidance for disk and firmware qualification evaluations, reducing team time investment, and improving testing consistency.

LSR New Version Release | AWS
- Executed stair-step performance tests on 20+ experimental versions for the LSR 3.6 release, ensuring optimal performance benchmarks prior to deployment.
- Designed and implemented the LSR 3.7 release test plan, completing 14 fault injection tests, resolving 15 tickets, and managing deployment across 20,000+ EBS servers in 50+ availability zones. Troubleshot and resolved 200+ deployment failures, contributing to a 100% successful deployment rate.
- Optimized drain and isolation logic in deployment scripts for LSR 3.7.1, reducing server isolation time by 15-25 minutes per server and improving overall efficiency by 16.7%-50%.

Disk/FW Qualification Evaluation | AWS
- Led qualification and performance evaluations for 6 disk models and 10+ firmware versions, delivering consistent quality benchmarks across storage solutions.
- Developed a comprehensive encompassing 3 main parts with a 60-step qualification guide, streamlining and automating evaluation processes with detailed troubleshooting manuals to support new engineers.
- Onboarded 20+ engineers in disk/firmware qualification processes, enabling them to manage backlog evaluations independently within 2 months.
- Optimized integration tests, saving 4-5 hours in the release cycle.

SKILLS

Programming Language: Python, Java, Kotlin, SQL, C, C++, Bash, HTML, CSS, JavaScript, React
Software: Git, Vim, Visual Studio, IntelliJ, PyCharm, Android Studio, X Code, MS Office, Outlook, Slack
Cloud & DevOps: AWS Lambda, EC2, EBS, S3, RedShift Database, CloudWatch, CI/CD Pipelines, DevOps
Frameworks & APIs: Retrofit, REST API, Flask, Spring Boot, Postman
Operating System: Linux, macOS, Windows, Android
Languages: Native Chinese Mandarin (written & spoken)