PHILIPPE EL ASMAR

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Experience

06/15/2020 - Present

AMAZON WEB SERVICES (AWS)   **Arlington VA**

Software Development Engineer, AWS .NET SDK Team

- **Pipeline Performance & Reliability:** Revamped the .NET Lambda release pipeline, slashing the testing stage runtime by **99%** (from over 5 hours to 7 minutes) and achieving a **43x** overall performance improvement by resolving a critical deadlock bug and enabling full test parallelization.
- **Automation & Tooling:** Engineered and launched a novel automation tool that streamlined versioning, changelog generation, and release processes for 15 high-level libraries, reducing a manual, error-prone workflow to a single-click operation via GitHub Actions.
- **Infrastructure Development & Security:** Architected and implemented a multi-account AWS testing infrastructure to support unit and integration tests across all team libraries. This initiative introduced automated PR checks that significantly improved code quality, developer velocity, and system reliability.
- **Operational Efficiency:** Enhanced system security and reduced operational toil by developing an automated test resource sweeper, which eliminated recurring weekly security tickets from orphaned resources and lowered infrastructure costs.
- **Strategic Initiative Leadership:** Led the end-to-end initiative to introduce ARM-based application deployment, delivering significant cost savings and performance improvements to customers by enabling more efficient compute options.
- **Rapid Service Enablement:** Spearheaded the .NET launch on AWS Lambda by owning the image release lifecycle, delivering production-ready images within hours of Microsoft's GA release to unblock the Lambda service and ensure immediate availability.
- **Process Automation:** Innovated a self-mutating CI/CD infrastructure for .NET Lambda OCI images, fully automating the annual runtime update process and future-proofing the release pipeline against thousands of hours of repeated engineering effort.

06/06/2015 - 08/23/2019

MUREX SYSTEMS   **Lebanon**

Software Engineer, Data and Analytics Team

- Developed a custom large-scale version control system for QlikSense using C# and TortoiseSVN to manage self-service business intelligence dashboard creation
- Developed an automated Move-to-Production process for QlikSense using C# that enables moving developments from testing environments to production in one click
- Developed a tool that automatically generates documentation pages from code comments of QlikSense scripts using C# and published them on Confluence using Rest APIs
- Created a database crawler which detects structural changes using SQL and C#
- Developed a data catalog to describe technical data elements using ASP.NET and C#
- Created an algorithm that dynamically creates a data model based on user fields selection that can be fed to our business intelligence tool QlikSense using C# and SQL
- Leveraged C#, ASP.NET and other web technologies to build a web application that allows users to perform the development and releasing lifecycles in one place
- Designed scalable multi-node machine clusters to handle the load of the company-wide business intelligence tool QlikSense
- Drastically increased unit test coverage for entire JAVA project from 20% to 90%

Education

CORNELL UNIVERSITY   **New York NY**

Master of Engineering in Computer Science, May 2020   GPA: 3.94

Relevant Courses: Data Science, Applied Machine Learning, Deep Learning

NOTRE DAME UNIVERSITY (NDU)   **Lebanon**

Bachelor of Science in Computer Science, Summa Cum Laude, May 2016   GPA: 3.81

Honors: 75% Merit scholarship

Relevant Courses: Data Mining, Data Structures, Analysis of Algorithms

Skills	**Programing Languages:** C#, TypeScript, Java, HTML, CSS, JavaScript, SQL, Python **Tools & Technologies:** ASP.NET Core, Blazor, Docker, AWS, CI/CD, Distributed Systems, Next.js, Flutter, QlikSense (4+ years), QlikView (4+ years)
Projects	• Guru Countdown: Professional countdown timer for tracking events in Next.js & Flutter • InDaBeat: VR Karaoke application for Oculus Quest using Unity Game Engine in C# • Nopioid: Addiction treatment application for Android and iOS using React Native
Training Programs	Deploy and Administer Qlik Sense, Big Data Solutions with Qlik Sense, Scrum Master Training, Leading Scaled Agile Framework (SAFe)