Alberto Cabello

Address:

1301 Alpha Street, Unit 3105

West Palm Beach, FL 33401

Phone: (954) 801-3445

Email: albert.a.cabello@gmail.com

GitHub: github.com/albertcabello

Experience

Software Engineer II, *Amazon Web Services*   *October 2022 – Present*

- Developer on AWS Supply Chain as part of the Vendor Lead Time feature. Leveraged machine learning services to train models that accurately predicted expected lead times for customer specified product watchlists.
- Developed a solution for recurring errors that were due to Step Function payloads being over the size limit of 250 KB. The new solution brought payload sizes down to 50 KB and eased the workload of our on-call schedule by reducing the number of high severity issues.
- Led development on a cross-team initiative to use customer-managed keys to encrypt database records in our product. This required a large refactoring of the existing DynamoDB tables as well as the introduction of new usage patterns for the DynamoDB client.
- Designed a new system to support the tracking of work and purchase orders instead of only shipments. Met with stakeholders to determine API contracts and with product managers to resolve ambiguities in the requirements.
- Assisted in the efforts to migrate existing infrastructure to use Spark. This led to an overall latency reduction from 24 hours to 2 hours for our long running workflows.
- Created multiple alarms and dashboards ahead of the general availability launch of the product. These new alarms and dashboards gave developers additional insights into recurring issues and made diagnosing issues in production easier. This led to improved stability of the product and a reduced number of tickets for the on-call.

Software Engineer II, *Microsoft Corporation*   *April 2022 – October 2022*

- Created Azure Synapse pipelines to automate the running of large-scale Spark jobs to improve developer productivity compared to running things manually in Jupyter/Zeppelin notebooks.
- Developed Spark job that ensures no data loss when migrating to new data models. Job runs daily and processes over 170 GB of data in under 20 minutes.
- Maintained multiple large SQL tables and was the point of contact for any issues as well as functionality changes in stored procedures relating to the tables.

Sr. Software Engineer, *Citrix Systems, Inc.*   *September 2019 – April 2022*

- Main developer on a resiliency project that allows customers to continue to use our services even in the case of a cloud outage. This increased product availability by 15% for all customers enrolled in the feature.
- Developed a new, highly performant, RESTful service in C# that handles key management for all our microservices.
- Made large contributions to a code generation platform using Protobuf and gRPC that automated the creation of new microservices, allowing for developers to focus on the business logic of a service.
- Wrote unit tests for all new code written as well as expanded unit test coverage across the board.
- Used best security practices to encrypt stored client information using asymmetric keys and Azure Key Vault.
- Used build tool Buck to lower compile time by 45%, eliminate unnecessary compiles, and improve code turnaround.
- Created RED metrics alerts and dashboards in Splunk so developers can catch and resolve bugs sooner.

Education

Bachelor of Science in Computer Science, *Florida International University*   *July 2019*

- GPA: 3.93, *Summa Cum Laude.*
- Member of the FIU Honors College and FIU Programming Team.

Technical Skills

Languages: C#, Java, C/C++, JavaScript, SQL, Python, Scala, R

Software and Frameworks: Spark, Visual Studio, Buck, MSBuild, TypeScript, Splunk