

# Kaiyue Lu

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## Education

**University of Virginia**, Charlottesville, VA  
M.S. Computer Science, May 2019, **GPA: 3.85/4.0**

*Aug 2017 - May 2019*

**Rutgers State University**, New Brunswick, NJ  
B.S. Computer Science, May 2017, **GPA: 3.61/4.0**

*Aug 2014 - May 2017*

## Experience

**Amazon.com, Inc - Software Dev Engineer - Boston, MA, Apr, 2022 - Present**

- Implement and maintain Amazon core data platform to allow data ingestion from Oracle database, transform data between DynamoDB tables using Lambda functions, use Step function to coordinate batch jobs, which allows downstream to consume bulk export data. (Java)
- Regionalized the pipelines and AWS resources to multiple regions, which further improved availability and reduced latency for customers from different regions. (Java)

**Amazon Web Services - Cloud Support Engineer - Dallas, TX, August, 2019 - Boston, MA, Apr, 2022**

- Troubleshoot technical inquiries related to customer implementations to identify root causes of network/system issues using AWS services.
- Replicated customer code to identify AWS service level issue.
- Provided solutions for performance optimization and best practices on infrastructure using Lambda, API Gateway, Step Function, SNS, IoT, etc

**AEEC, LLC - Google Cloud Platform Intern - Alexandria, VA, May, 2018 - Aug, 2018**

- Implemented alert web application using Flask and deployed by GCP App Engine. (Python, JS)
- Predicted flow rate/WQ elements using Prophet package in DataLab. (Python)
- Used BigQuery, Data Studio to query table and built report using data from IoT devices. (SQL)

## Projects

**HoloLens 3D Visualization Project**

Implemented 3D visualization to realize environment casting and virtual environment setting simulation using C#, Visual Studio, Unity, and HoloLens.

**Werewolf Judge Project**

Implemented a mobile app using Swift for user to act as judge in Werewolf card game.

**Internet of Trillions of Things(IOTT) Project**

- Implemented an Android SOS app on smart watch using Bluetooth to detect nearby devices.
- Sent and retrieved real-time locations of itself and nearby devices to/from BigQuery.

## Certificate

**AWS Certified Solutions Architect Associate - Validation# WHH8RY5D2EEE1VGE, Mar, 2021 - Mar, 2024**

## Technical Skills

AWS, Java, C++, Python, SQL, Swift, JavaScript, HTML, CSS, Android, C#, C, R, MATLAB