

Xiaohan Liu

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Experience

Amazon Web Services, Inc.

Seattle, WA 98109

Software Development Engineer, Meeting Experience

10/2021 - Current

- Constructed the infrastructure of the meeting information channel on the hybrid conference system by AWS CDK, implemented the meeting information channel, realized the function of ad-hoc retrieving meeting information.
- Designed the meeting dial channel on the hybrid conference system, implemented the meeting dial channel, achieved the core function of in room device dialing into meeting.
- Designed the in room interaction channel on the hybrid conference system, implemented the in room interaction channel, extended the downstream client availability to the whole Cisco in room control system.
- Corporated with downstream clients on the integration and pilot tests.
- Designed the metric collection channel of the hybrid conferencet system, implemented the metric collection channel, collected the operational metrics like end-to-end latency and business metrics like weekly sum of meetings dialed by customer, set up the metric dashbaords and auto-cut ticket alarms.
- Improved the client side latency by using async API calls, setting up the provisioned concurrency for time-sensitive features, optimized the in room dial and the meeting information retrieval P99 latency to 8 seconds and 5 seconds.
- Designed the testing system of the hybrid conference system, hold two round design reviews with the team and the downstream client, set up the scope, business requirements and technical requirements.
- Implemented the integration and canary test cases, set up the test infrastructure in CI/CD pipeline, helped monitoring the service health in real time.
- Designed and implemented the error handling and error notification part of meeting panel Android app, helped operators to find root cause during the provision process, wrote the SOP and runbook for operators.

Amazon.com Services LLC

Seattle, WA 98109

Software Development Engineer, Identity Services

06/2021 - 10/2021

- Implemented the package including various of authentication and authorization signals classes, based on the OAuth 2.0 Framework.
- Created the signal handler client interface, constructed SNS client with AWS Credential Provider to publish signals to AWS SNS topic.
- Designed and applied JUnit4, JUnit5 and Mockito to finish the unit tests and connectivity tests.
- Imported and configured the package into authentication and authorization application, realized the target of collecting signals after authentication session created.
- Integrated signals during post-authentication and pre-authorization, published signals to specific channel by initilizing a SNS client.
- Sent identity service signals to risk detection platform, further helped detecting high risk action during authentication and authorization.

Skills

Programming Language

- Java, C/C++, Python, HTML/CSS/JavaScript, SQL, Kotlin, Bash

Framework & DevOps Tools

- AWS, Dagger, NodeJS, Express, JQuery, JUnit5, Mockito, REST, Git

Education

Syracuse University

Syracuse, NY 13210

M.S. Computer Science

08/2019 - 05/2021

- Courses: NLP, Object Oriented Design, Principles of Operating Systems, Android Programming, Introduction to Database, Social Media & Data Mining, Design & Analysis of Algorithm

Tianjin University

Tianjin, China 300350

B.S. Applied Chemistry

09/2015 - 07/2019

- Coursework: Computation in Pd-Catalyzed Cross-Coupling Reaction

Technion - Israel Institute of Technology

Haifa, Israel 3200003

Exchange Student

08/2018 - 09/2018

- Course: Introduction to Machine Learning