Ning Wang

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Programming Languages & Tools

- Languages: Java, Python, SQL, GraphQL, TypeScript, JavaScript, Ruby, Bash
- Tools: REST, Spring Boot, Django, PostgreSQL, GraphQL, Git, Liquibase, Elasticsearch, Docker, Jenkins
- AWS: EC2, CDK, API Gateway, SQS, S3, CloudWatch, ECS, Fargate, CloudFormation, EventBridge

Professional Experience - Backend / Full Stack

VMware - End User Computing, Software Engineer

07/2022-present

- Built a Custom Role Framework for enterprise users like *PWC*, *Adobe*, *and Walmart* to help managing *200*+
 Role Based Access Control scopes. Achieved customer access classification based on role levels and
 subscription plans, secured user files and data by isolating read/write/share access.
- Going an extra mile, enhanced Custom Role Framework by developing a Freestyle Role Generator. Given super admins the ability to create Freestyle Roles with any arbitrary combinations of accessibilities. Freed enterprise admins from over/under-sharing data access to team members.
- Looking out for the team, led a group of 3 engineers to develop a toolkit which eliminated 60% of the team's Escalations caused by user login failures, reduced 60% oncall load for a 20-engineers-team. Designed ESC mitigation workflows and test plans. Same mitigation workflow then used on solving ESCs in other teams.
- Built a Marketplace feature for enterprise users to search dashboards and monitoring metrics. Enabled searching by name and description, saving users' time spent on manual selecting.
- To ease sister UI team's workload, enriched user domain info by building *GraphQL* queries on top of 20+ *RESTful APIs*. Helped UI team to retrieve info through multiple microservices, saved data fetching time.
- Leveraging *Spring Boot*, *Java*, *PostgreSQL*, *GprahQL*, *and Ruby* to build the backend code and databases for business logic. Built *APIs* for internal and public use cases.
- Designed DB schemas and data migration strategies. Used *Liquibase* for schema and data version control.
- Utilizing *AWS* components to build the Cloud Infrastructure for our *Microservices*. Using *SQS* for message queueing, *API Gateway* for API monitoring, and *RDS* for database management.

Amazon Web Services - AWS Connect, Software Engineer

07/2021-10/2021

- Built a *Microservice* to execute Phone Call History Report, decoupled team specific API based service.
- Leveraged *CDK* to build a *Serverless AWS* based *Cloud Infrastructure*. Utilized *EventBridge* to absorb and route call ID, used *SQS*, *ECS*, *Fargate* to process asynchronous events, stored reports in *S3* buckets.
- Utilized Java to implement backend service code, used TypeScript to define AWS CDK infrastructures.
- Used *Ruby* to configure internal monitor dashboard, provided real-time service metrics report to the team.

VMware, Inc., Software Engineer - Test

05/2021-07/2021

- Implemented a multi-version *Python/Pytest* compatibility module for team's development/testing framework.
- Designed *PyTest* plugins to improve testing efficiency, boosted the overall testing efficiency up by 15%.
- Built a status monitoring tool, enabled VMware teams with better observability on test phases and logs.

Nutanix, Collab Software Engineer

09/2019-06/2020

- Built a Honeypot Monitor System to manage deployment and configuration of distributed honeypots.
- Implemented log management module with *Fluent-bit*, *Fluentd* and *S3*, boosted collecting efficiency by 30%.
- Leveraged *Django REST* to provide backend interfaces and utilized *ReactJS* for web development. Enabled activation and termination functionalities for the honeypots. Leveraged *Docker* for backend deployment.

Education

University of Washington (Seattle, WA)

07/2022

• Electrical and Computer Engineering, Master of Science, GPA: 3.82/4.0

Xidian University (Xi'an, China)

06/2019

• Telecommunications Engineering, Bachelor of Engineering, GPA: 3.7/4.0