ZHIYUAN (ZANE) LIN

Vancouver, BC, Canada

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WORK EXPERIENCE

Amazon Web Services, S3 Transport

12/2018 - 07/2021

Software Development Engineer

Vancouver, Canada

- · Led development of highly concurrent services, coordinating work across several different teams and managing project delivery process from design to launch and operation.
- · Developed a large-scale distributed system that processes over 3 petabytes of S3 data a day utilizing AWS technologies such as SQS and DynamoDB.
- · Designed and implemented highly scalable asynchronous APIs that serves tens of thousands of transactions per second combining serverless and traditional technologies.

Amazon Web Services, S3 Cross Region Replication

02/2017 - 12/2018

Software Development Engineer

Vancouver, Canada

- · Scaled an event-driven system to serve over 100k transactions per second, implementing scheduling and rate limiting functionalities to maintain fairness of resource allocation and protect dependencies.
- · Developed critical security feature used by thousands of enterprise customers.

MosaixSoft, Inc. 04/2015 - 08/2015

Software Engineering Internship (Cloud Computing)

Los Altos, USA

- · Developed a cloud security management system that provides a high-level interface for monitoring and configuring the security of cloud platforms such as OpenStack and AWS.
- · Researched and developed solutions for resource allocation in cloud.

China Life Insurance Company

02/2014 - 07/2014

Software Engineering Internship (Web Development)

Guangzhou, China

- · Implemented a human resource management system that facilitates the management of thousands of employees using ASP.NET (C#) web services and Microsoft SQL Server.
- · Created an AJAX-based interactive web front-end for the system in Javascript with jQuery.
 - * Supporting family member in need while working on personal projects from August 2021 to January 2022.

EDUCATION

University of Waterloo, Waterloo, Canada

09/2014 - 08/2016

Master of Applied Science in Electrical and Computer Engineering

GPA: 97.60/100

Awards: Faculty of Engineering Award

University of Glasgow, Glasgow, UK

09/2012 - 12/2013

Master of Science in Information Technology with Distinction

GPA: 20.053/22

Renmin University of China, Beijing, China

09/2008 - 07/2012

Bachelor of Economics

PROJECTS

Graph Automorphism-Based, Semantics-Preserving Security for the RDF

09/2015 - 08/2016

· Designed and implemented an algorithm that secures RDF graphs using satisfiability (SAT) solvers. The result was published on CODASPY '17.

Joos 1W Compiler 01/2016 - 04/2016

· Developed a compiler from the Joos 1W language, a large subset of Java, to NASM assembly.

Matching Algorithms Toolkit

04/2013 - 08/2013

· Implemented and optimized several matching algorithms to solve the House Allocation problem.

SKILLS

Programming Languages (in order of proficiency): Java, Python, Ruby, Kotlin, R

AWS Technologies: S3, EC2, DynamoDB, SQS, Lambda, API Gateway, Step Function, Route 53, etc.

Frameworks and Libraries: Scipy, SageMath, Flask, Spring Boot