Tian Luan in

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EDUCATION

University of Illinois Urbana-Champaign

Aug 2022 - May 2024 (Expected)

Master of Engineering in Electrical and Computer Engineering

(GPA: 3.94/4.00) Champaign, IL

Australian National University

Jul 2019 - Jul 2021

Bachelor of Advanced Computing (Honours)

(GPA: 3.75/4.00) Canberra, Australia

Shandong University

Sep 2017 - Jul 2021

Bachelor of Engineering in Computer Science

(GPA: 3.83/4.00) Shandong, China

SKILLS

Programming Languages: Java, Go, Python, JavaScript/TypeScript, C/C++, Rust, HTML, CSS, SQL Cloud & Database Technologies: AWS, GCP, MongoDB, MySQL, PostgreSQL, Redis, Neo4j Development Tools/Frameworks: Docker, Kubernetes (K8s), gRPC, protobuf, Kafka, Spring, Maven, Linux, Git, Postman, React.js, Next.js, Redux, Node.js, JUnit, TestNG, Flask, Bootstrap, Jetty, Jira, Asana

PROFESSIONAL EXPERIENCES

Amazon Web Services, Inc.

Aug 2023 - Nov 2023 (Expected)

Software Dev Engineer Intern, AWS Amplify Hosting Team

Seattle, WA

- Leading the enhancement of Access Log experience for AWS Amplify Hosting using Java and TypeScript, targeting issues of log retrieval latency and timeouts for Apps deployed on Amazon CloudFront
- · Implementing real-time Access Log streaming using Amazon Kinesis Data Stream and developing a Amazon Kinesis Data Stream Consumer that runs on AWS Fargate, designed to parse real-time Access Log and push them to Amazon CloudWatch for advanced log filtering, analysis, and querying in real-time
- · Achieving seamless integration among Amazon CloudFront, Amazon S3, Amazon Kinesis, AWS Fargate, and Amazon CloudWatch to provide an end-to-end real-time Access Log solution

Yahoo Inc. May 2023 - Aug 2023

Software Engineering Intern, Core Mail Backend Team

Remote

- · Built the Telemetry Dispatcher middleware for Yahoo Mail backend using OpenTelemetry Collector , streamlining telemetry data routing to downstream vendors including Splunk Data Platform and YAMAS
- · Automated build and test processes with Screwdriver.cd, reducing lead time and recovery time by 33%
- · Deployed on Google Kubernetes Engine, projected to handle 75M metrics/min and 750 TiB logs daily
- · Contributed a Go-based metrics processor to the CNCF-incubated OpenTelemetry open-source project
- · Developed an asynchronous Access Log Java Library for Jetty, improving throughput by 47%

Tovala Inc. Feb 2023 - May 2023 Champaign, IL

Industry-Collaborative Capstone Project

- · Led the **Python**-based Tovala Automated Test Engine (TATE) project, saving **0.8** FTE continuously
- · Provided RESTful APIs to control TATE using Flask and employed gRPC for internal communication
- · Boosted system efficiency by 40% and reduced message latency by 31% using Kafka as the message broker

RELATED PROJECT

NiceHomestay Aug 2022 - Dec 2022

- · Developed a dynamic accommodation review platform and deployed it on **Heroku**
- · Crafed a responsive web interface using **React** with **HTML/CSS/JavaScript**, styled with **Bootstrap**
- · Implemented RESTful APIs with **Node.js** and architected a **MongoDB** database schema to store data
- · Integrated geospatial mapping capabilities via MapBox APIs, enabling dynamic map visualization