

WENYE (ALEX) ZHANG

✉ alexzhang1994@cs.ucla.edu ☎ (424) 298-7797 🌐 <https://aceye1994.github.io/>

EDUCATION BACKGROUND

University of California, Los Angeles (UCLA) 09/2021 - 03/2023 (Expected)

Samueli School of Engineering, Computer Science MS program

GPA: 3.83/4.0, Courses: Internet Architecture(A+), Computer Systems Architecture(A+), Cryptographic(A), Wireless Network(A), Network Fundamentals(A), Artificial Intelligence(A), Automated Reasoning(A)

Shanghai Jiao Tong University (SJTU) 09/2016 - 06/2018

Shanghai Advanced Institute of Finance (# 1 Master of Finance Program in Asia) , Master of Finance

GPA Ranking: #2 of 51, CFA Awareness Scholarship, Graduate Excellence Scholarship

Shanghai Jiao Tong University (SJTU) 09/2012 - 06/2016

School of Mathematical Science, Bachelor of Science in Mathematics and Applied Mathematics

GPA: 3.93/4.3, Ranking: #2 of 80, Graduated with Honor, National Scholarship

PROFESSIONAL EXPERIENCE

Amazon (*Java, Bash, SQL, AWS*)

Software Development Engineer Summer Intern

06/2022 - 09/2022

- Developed solutions to monitor the voice middleware in over 150 million devices, and designed and implemented a tool based on AWS CloudWatch to automatically generate dashboards and alarms
- Utilized Java for the back-end and shell scripts for the front-end to provide CLI for users to create, update, and delete dashboards and alarms, and employed SQL to query data from Athena
- Integrated the monitoring tool into a continuous delivery pipeline to enable full automation

ZS Associates (*Python, SQL*)

Strategy Insights & Planning Associate/Associate Consultant

07/2018 - 10/2020

- Specialized in sales force optimization for top multi-national corporations in the healthcare market, using Python tools for market size estimation and data analysis
- Led projects on resources optimization, forecast modeling, and market understanding, resulting in improved projection accuracy by 40% and increased customer user coverage by 31%

RECENT PROJECTS

SIM-based Local Failure Diagnoses (*Java, Python*)

12/2022 - Present

- Designed a SIM-based software solution for 5G failures detection and recovery on local end
- Developed a Finite-state machine to detect failures in a sequence and take appropriate actions
- Created a SIM applet on Javacard-based eSIM, consisting of 1225 lines of Java code, and assessed its feasibility using open-source simulators and actual Java Cards

A Novel Approach to LoRa Failure Handling (*Java, C++*)

09/2022 - 02/2023

- Co-designed a new approach for LoRa failure handling by leveraging multiple replicas, CRC and Integrity
- Conducted mathematical analysis and proof to determine success rate and overhead
- Implemented the algorithm using 1068 lines of Python code and conducted empirical evaluations

Fullstack iOS Application Development “PupGo” (*Swift, Golang, GraphQL*)

09/2021 - 02/2022

- Developed a dog dating iOS app using Swift for the front-end design
- Collaborated on the back-end functions, including accounts registration, dog profile validation through image recognition, and events exploration using recommendation algorithms implemented with Golang and GraphQL

SKILLS & COURSES

Programming: Java, Python, C/C++, Swift, bash, MATLAB, SQL, PHP, JavaScript

Software/Platform: Tableau, Excel, Word, PowerPoint, Access, MySQL, Spark, AWS