

Fangxu Yuan

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EDUCATION

University of Virginia Sept 2024 - Jun 2028

Ph.D. in Systems Engineering

Hong Kong University of Science and Technology Sept 2021 - Nov 2022

Master of Science in Information Technology (GPA: 3.7/4.0)

Course: Machine Learning(A), Engineering Reliable Object-Oriented Software Systems(A), Search Engine and Applications(A), Independent Project on Indoor Localization(A), Advanced Cloud Computing(A-)

Xiamen University Sept 2017 - Jun 2021

Bachelor of Engineering in Computer Science and Technology (GPA: 3.3/4.0)

Course: Software Engineering(A), Structure and Development Environment for Software(A), Design and Analysis of Algorithm(A), Principle of Operating System(A), Principle of Compiler Construction(A)

RESEARCH EXPERIENCE

Laboratory of Sensing and Computing for Smart City of Xiamen University Sept 2018 - Feb 2021

Paper: UVLens: Urban Village Boundary Identification and Population Estimation Leveraging Open Government Data (Longbiao Chen, Chenhui Lu, **Fangxu Yuan**, Zhihan Jiang, Leye Wang, Daqing Zhang, Ruixiang Luo, Xiaoliang Fan, Cheng Wang*) [IMWUT 2021]

Patent: Urban Village Identification and Population Estimation Method, System and Computer Storage Medium Based on Deep Learning [Patent Number: CN112215059A] (Longbiao Chen, Chenhui Lu, **Fangxu Yuan**, Cheng Wang)

WORK EXPERIENCE

Amazon Web Service Nov 2022 - Oct 2023

Software Development Engineer

- **Real Name Verification System Development:** Led the development of a high-throughput, highly available automatic verification system for user sign-up in the China region. This involved integrating multiple vendors and managing high concurrency. The system successfully achieved a daily active user (DAU) count of over 10,000 post-launch, highlighting my ability to manage complex software development projects.
- **Integration Testing:** Strategically planned and executed integration tests to ensure our team's service compatibility and seamless operation in line with business requirements. This role required strong communication skills to coordinate with various stakeholders and ensure alignment of technical and business objectives.
- **Lead the development of a LLM Application:** Spearheaded a project to create a Language Model (LLM) application using AWS tools, specifically designed to generate content for the AWS China region. This showcased my leadership and software development skills, as I led the project from conceptualization to deployment, ensuring its success.
- **Operational On-call Duties:** Handled various operational tasks within the team's service scope, effectively managing and resolving issues as they arose. This role required strong problem-solving skills, technical knowledge, and the ability to communicate effectively under pressure.

INTERNSHIP EXPERIENCE

Amazon Web Service Mar 2022 - Aug 2022

Intern Software Development Engineer

- **Data Warehouse Design:** Single-handedly designed a data warehouse architecture for team, providing a robust and reusable data extraction, transformation, and loading (ETL) process. This design facilitated centralized data storage and management, showcasing my ability to conceptualize and plan complex data systems.
- **Data Warehouse Development:** Leveraged AWS tools to bring my data warehouse design to life, migrating the team's existing business data to the new system. This centralized and streamlined the team's data management, from input and processing to output.

Alibaba Cloud

Apr 2021 - Jul 2021

Intern Test Development Engineer

- **Technical stress test:** Independently conducted stress testing of a distributed computing solution, ensuring its optimal performance under varying loads. This process demonstrated my ability to design and execute complex testing protocols.
- **Integration testing:** Authored integration tests, covering all 61 product interfaces and three main processes. This comprehensive testing approach ensured that all components of the product worked together seamlessly, highlighting my attention to details and commitment to delivering high-quality software.
- **Product delivery:** Coordinated the final product delivery to the second party, ensuring the product met all quality standards. This role required me to communicate effectively with different teams and stakeholders, demonstrating my strong communication skills and ability to ensure the smooth transition of products from development to deployment.

Shenzhen Ridge Engineering Consulting Co., Ltd.

Mar 2021 - Apr 2021

Intern Data Analyst

- **Machine Learning Model Design:** In collaboration with building engineers, I designed an early warning model using machine learning techniques. This involved processing and analyzing measured project data, as well as historical data on customer complaints and safety incidents. The output was a risk probability model used for issuing warnings, solving a real-world context meeting the company's needs.

OTHER

Language: English (IELTS:7), Chinese (Native)

Programming Languages: Python, Java, C++, JavaScript, TypeScript

Personal characteristics: Passionate about learning new techniques and actively strive to apply technology through continuous learning and practical implementation