

Lize Chen

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EDUCATION

Rice University , Houston, TX	Aug 2021 - Dec 2022
Master's degree, Computer Science (GPA: 3.60/4.0)	
University of Arizona , Tucson, AZ	Aug 2017 - May 2020
Bachelor of Science, Computer Science, Mathematics (GPA: 3.53/4.0, <i>Cum Laude, Dean's List</i>)	
Programming Languages	(main) Java, JavaScript, Python, (proficient) Bash, C/C++, C#, Dart, SQL
Frameworks & Tools	AWS, Django, Docker, FastAPI, Flask, Flutter, MySQL, NoSQL, Postgres, React, Spring

WORK EXPERIENCE

Full Stack Engineer Lenwell International, Corp	May 2023 - present Houston, Texas
<ul style="list-style-type: none">Led the development of multiple e-commerce platforms (B2B, B2C) from 0 to 1 using Agile methodologies.Achieved monthly \$100k transactions on the web platform, integrating Stripe for payment security, while utilizing React Redux for streamlined states and Django for MVP phase, transitioning to Java Spring Boot for production.Reduced costs by 36.8% and improved response time by 56.3% through a hybrid database approach leveraging PostgreSQL and DynamoDB, with Lambda seamlessly triggering database operations.Attained a 30-50% performance improvement by leveraging Flask, Flutter, and FastAPI for the mobile app.Drove a 35% reduction in development time and revolutionized deployment efficiency by dockerizing the backend into Elastic Container Service, and integrating AWS Amplify for the frontend to enable full-stack CI/CD pipelines.Mentored and facilitated intern onboarding and spearheaded the establishment of comprehensive software dev docs.	
Mobile Application Developer Rice University Department of Mechanical Engineering	Feb 2023 - May 2023 Houston, Texas
<ul style="list-style-type: none">Developed an Android app using Java and incorporated Kotlin libraries. Applied a custom YOLOv5 model to analyze control and test line intensities on virus test kits, achieving 95% image recognition accuracy.Assisted a cross-functional team in implementing web scraping and automated data extraction processes for biomarkers using Pandas and Selenium, effectively eliminating page loading time by 100%.	
Research Computing Software Engineering Intern Rice University Center for Career Development	May 2022 - Aug 2022 Houston, Texas
<ul style="list-style-type: none">Prototyped a data-centric web application running in OCI, architecting a lightweight, autoscaling cloud deployment model, with over 50,000 visitors per month.Containerized the application with Docker, built RESTful APIs with Django framework and manipulated data in MySQL database of 95,153 entries by Python Pandas.Customized UIs with React MUI and Plotly to enable more intuitive data interaction and faster insight generation.	
Software Engineer FUJIFILM Business Innovation Corp.	Dec 2020 - May 2021 Shanghai, China
<ul style="list-style-type: none">Engineered multiple display pages for Fujifilm printer touchscreen using C++/JavaScript, optimizing Web Widget performance by implementing text wrapping, focusing, and IME integration, boosting user engagement by 40%.Created an automated deployment script by Bash/UltraVNC, updating and making configurations for 100+ virtual printers in VirtualBox, reducing 100% manual configuring/testing processes.Collaborated with a 10-person team to develop a meeting room scheduling software for 6700+ companies, establishing Vue.js frontend with Java Spring Boot backend, and utilizing Alibaba Cloud/RabbitMQ/Redis.	
Teaching Assistant at Rice University, Houston, Texas	Aug 2021 - Dec 2021
<ul style="list-style-type: none">Graded and provided feedback on assignments/exams for COMP 311/544 Functional Programming.	

PROJECTS

Multi-User Blogging Platform <i>React, NodeJS, MongoDB, Jasmine, Jest</i>	Oct 2022 - Dec 2022
<ul style="list-style-type: none">Combined OAuth for enhanced security, potentially boosting user trust and satisfaction by up to 30%.	
Multi-User Chat App <i>Java, JavaScript, Bootstrap, WebSocket, MVC, Maven</i>	Oct 2021 - Nov 2021
<ul style="list-style-type: none">Led a 7-person team to develop an instant messaging web app that supports communication in private or group chat rooms.	
Artificial Intelligence Project - Pacwar <i>Python, Genetic Algorithm, AWS EC2</i>	Sep 2021 - Dec 2021
<ul style="list-style-type: none">Awarded the championship in the 2021 Rice Pacwar Tournament, competing against 24 other teams.	
Games that induce emotion for ToMCAT <i>Java, Shell, OpenCV</i>	Sep 2019 - May 2020
<ul style="list-style-type: none">Collaborated research team to collect synchronized data from multiple people interacting within Java-Based Minecraft.	