

# Lize Chen

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## EDUCATION

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

## WORK EXPERIENCE

<b>Full Stack Engineer</b> Lenwell International, Corp	May 2023 - present Houston, Texas
<ul style="list-style-type: none"><li>Designed and developed multiple <b>e-commerce</b> platforms (B2B, B2C) using Agile methodologies from the ground up.</li><li>Reduced user latency by <b>50%</b> and minimized website downtime by <b>20%</b> using <b>Python Django</b> on <b>AWS Elastic Beanstalk</b> integrated load balancer and CloudFront to optimize <b>RESTful APIs</b> management.</li><li>Streamlined <b>React Redux</b> application states and integrated <b>Stripe</b> for secure and efficient payment processing, catering to both desktop and mobile web platforms, and achieving monthly transactions of <b>\$100k</b>.</li><li>Optimized time-to-market and automated deployment efficiency by leveraging <b>CI/CD</b> pipelines with <b>AWS Amplify</b>, resulting in a <b>35%</b> reduction in development time.</li><li>Leveraged <b>AWS RDS MySQL</b> for CRUD operations and utilized <b>AWS S3</b> for seamless document storage.</li><li>Mentored and guided the IT team in maintaining PHP WordPress websites and managing SiteGround DNS control.</li></ul>	
<b>Android Developer / Research Assistant</b> Rice University Department of Mechanical Engineering	Feb 2023 - May 2023 Houston, Texas
<ul style="list-style-type: none"><li>Developed an <b>Android</b> app using Java and integrated Kotlin libraries. Implemented a custom <b>YOLOv5</b> model to analyze control and test line intensities on virus test kits, achieving <b>95%</b> image recognition accuracy.</li><li>Assisted a cross-functional team in implementing web scraping and automated data extraction processes for biomarkers using Python Pandas, effectively eliminating page loading time by <b>100%</b>.</li></ul>	
<b>Research Computing Software Engineering Intern</b> Rice University Center for Career Development	May 2022 - Aug 2022 Houston, Texas
<ul style="list-style-type: none"><li>Prototyped a data-centric web application running in <b>OCI</b>, implementing a lightweight, autoscaling cloud deployment model, with over <b>50,000</b> visitors per month.</li><li>Containerized the application with <b>Docker</b>, implemented <b>RESTful APIs</b> with <b>Django</b> framework and manipulated data in <b>MySQL</b> database of <b>95,153</b> entries by Python Pandas.</li><li>Customized user interfaces with <b>React MUI</b> and <b>Plotly.js</b> to visualize data in bar, pie, scatter, and Sankey diagram.</li></ul>	
<b>Software Engineer</b> FUJIFILM Business Innovation Corp.	Dec 2020 - May 2021 Shanghai, China
<ul style="list-style-type: none"><li>Cooperated with team to design multiple display pages for Fujifilm printer touchscreen by <b>C++/JS</b> and optimized the performance of Web Widget, including text wrapping/focusing/IME integration.</li><li>Created an automated deployment script by <b>Bash/UltraVNC</b>, updating and making configurations for <b>100+</b> virtual printers in <b>VirtualBox</b>, reducing <b>100%</b> manual configuring/testing processes.</li><li>Collaborated with a 10-person team to develop a meeting room scheduling software for <b>6700+</b> companies, implemented <b>Vue.js</b> frontend with <b>Java Spring Boot</b> backend, and integrated <b>Alibaba Cloud/RabbitMQ/Redis</b>.</li></ul>	
<b>Teaching Assistant</b> at Rice University, Houston, Texas	Aug 2021 - Dec 2021
<ul style="list-style-type: none"><li>Graded and provided feedback on assignments/exams for COMP 311/544 <b>Functional Programming</b>.</li></ul>	

## PROJECTS

<b><a href="#">Multi-User Blogging Platform</a></b>   <i>React, NodeJS, MongoDB, Jasmine, Jest</i>	Oct 2022 - Dec 2022
<ul style="list-style-type: none"><li>Modeled and queried data in MongoDB, managed images by Cloudinary and authenticated with Google OAuth.</li><li>Applied test driven development paradigm by writing Jasmine and Jest unit testing and deployed on Surge and Heroku.</li></ul>	
<b><a href="#">Multi-User Chat App</a></b>   <i>Java, JavaScript, Bootstrap, WebSocket, MVC, Maven</i>	Oct 2021 - Nov 2021
<ul style="list-style-type: none"><li>Led a 7-person team to develop an instant messaging web app that supports communication in private or group chat rooms.</li></ul>	
<b><a href="#">Artificial Intelligence Project - Pacwar</a></b>   <i>Python, Genetic Algorithm, AWS EC2</i>	Sep 2021 - Dec 2021
Champion in the 2021 Rice Pacwar Tournament among 25 teams	
<b><a href="#">Games that induce emotion for ToMCAT</a></b>   <i>Java, Shell, OpenCV</i>	Sep 2019 - May 2020
<ul style="list-style-type: none"><li>Collaborated research team to collect synchronized data from multiple people interacting within Java-Based Minecraft.</li></ul>	