

# Lien Zhu

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## EDUCATION

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<b>Washington University in St. Louis, McKelvey School of Engineering</b> <i>Master of Engineering in Computer Science and Engineering, 4.0</i>	St. Louis, MO <i>January 2022 – May 2023</i>
<b>Washington University in St. Louis</b> <i>Bachelor of the Arts in Biology, 3.96</i>	St. Louis, MO <i>Aug. 2018 – May 2022</i>

## PROJECTS

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<b>Message in a Flask</b>   <a href="https://messageinaflask.com">messageinaflask.com</a>	August 2022
<ul style="list-style-type: none"><li>Designed and developed full-stack web app that implements message in a bottle concept</li><li>Users can write messages and are presented with a random message from other registered users one at a time</li><li>Users can archive messages they come across, removing the message from the pool of available messages</li><li>Implemented with Flask using PostgreSQL following MVC architecture pattern</li><li>Leveraged environment variables to deploy production quality app</li><li>Python, Flask, PostgreSQL, Jinja</li></ul>	
<b>Calendar</b>   <a href="https://cleancalendar.herokuapp.com">cleancalendar.herokuapp.com</a>	July 2022
<ul style="list-style-type: none"><li>Designed and developed full-stack web app that allows registered users to add events, edit events, tag events under categories, share events, and share calendars with other registered users</li><li>Full security considerations: session management, hashed passwords, CSRF tokens, etc</li><li>Leveraged environment variables to deploy production quality app</li><li>Linux, Apache, MySQL, PHP, JavaScript, AJAX</li></ul>	
<b>Personal Website</b>   <a href="https://lien Zhu.dev">https://lien Zhu.dev</a>	
<ul style="list-style-type: none"><li>HTML, CSS, JavaScript</li></ul>	

## EXPERIENCE

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<b>Teaching Assistant, Data Structures and Algorithms CSE 247</b> <i>Washington University in St. Louis, McKelvey School of Engineering</i>	August 2022 – Present <i>St. Louis, MO</i>
<ul style="list-style-type: none"><li>Responsible for holding office hours 4+ hours per week with 20+ students per session</li><li>Facilitate small group weekend problem solving sessions</li><li>Develop analogies and visual aids to make challenging concepts easier to understand</li></ul>	
<b>Teaching Assistant, Object Oriented Software Dev. Lab CSE 332S</b> <i>Washington University in St. Louis, McKelvey School of Engineering</i>	August 2022 – Present <i>St. Louis, MO</i>
<ul style="list-style-type: none"><li>Oversee student learning through class time studio assistance and small group problem solving</li><li>Assist students in learning C++ language features, memory management, environment set up, file structure</li><li>Responsible for holding office hours 2+ hours per week with 20+ students per session</li></ul>	

## TECHNICAL SKILLS

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**Languages:** PHP, C++, C, Python, SQL, JavaScript, Bash, HTML/CSS, Java, Atmel AVR Assembly  
**Databases:** PostgreSQL, MySQL, MariaDB, ClearDB, SQLite, ORM Techniques  
**Frameworks:** React, Flask, Django, JUnit  
**Developer Tools:** Linux, Git, Apache, Nginx, Node.JS, VS Code, Visual Studio  
**Cloud Services:** Amazon Web Services, Heroku

## RESEARCH

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<b>Machine Learning, Natural Language Processing</b> <i>Washington University in St. Louis, McKelvey School of Engineering</i>	September 2022 – Present <i>St. Louis, MO</i>
<ul style="list-style-type: none"><li>Master's research advised by Professor Chenguang Wang</li><li>Deep language model for biomedical structure prediction</li></ul>	
<b>Personal Research Site</b>   <a href="https://lienlearns.tech">https://lienlearns.tech</a> <i>ReactJS</i>	