

Lien Zhu

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EDUCATION

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

PROJECTS

Message in a Flask messageinaflask.com	August 2022
<ul style="list-style-type: none">Designed and developed full-stack web app that implements message in a bottle conceptUsers can write messages, save messages that float onto their page, throw messages back into oceanDeveloped through iterative, Agile minded methodologyConfigured environment and deployed production quality app to HerokuPython, Flask, PostgreSQL, Jinja, MVC architecture pattern	
Calendar cleancalendar.herokuapp.com	July 2022
<ul style="list-style-type: none">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 usersLearned web app security principles: session management, user authentication, CSRF tokens, prepped SQL queriesConfigured environment and deployed production quality app to HerokuLinux, Apache, MySQL, PHP, JavaScript, AJAX	
Personal Website https://lien-zhu.dev	
<ul style="list-style-type: none">HTML, CSS, JavaScript	

EXPERIENCE

Teaching Assistant, Data Structures and Algorithms CSE 247 <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">Responsible for holding office hours 2+ hours per week with 20+ students per sessionDevelop analogies and visual aids to make challenging concepts more accessible for students	
Teaching Assistant, Object Oriented Software Dev. Lab CSE 332S <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">Streamline lecture and studio learning by facilitating small group problem solving 3+ hours per weekTeach C++ language features, memory management, environment set up, compilersResponsible for holding office hours 2+ hours per week with 20+ students per sessionResponsible for answering student questions on Piazza	

TECHNICAL SKILLS

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

RESEARCH

Machine Learning, Natural Language Processing for Biomedicine <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">Master's research advised by Professor Chenguang WangDocker, Meta AI OPT	
Personal Research Site https://lienlearns.tech <i>React.js</i>	