

Lien Zhu

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EDUCATION

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

PROJECTS

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| 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 and are presented with a random message from other registered users one at a timeUsers can archive messages they come across, removing the message from the pool of available messagesImplemented with Flask using PostgreSQL following MVC architecture patternLeveraged environment variables to deploy production quality appPython, Flask, PostgreSQL, Jinja | |
| 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 usersFull security considerations: session management, hashed passwords, CSRF tokens, etcLeveraged environment variables to deploy production quality appLinux, Apache, MySQL, PHP, JavaScript, AJAX | |
| Personal Website https://lien-zhu.dev | |
| <ul style="list-style-type: none">HTML, CSS, JavaScript | |

EXPERIENCE

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

TECHNICAL SKILLS

Languages: PHP, C++, C, Python, SQL, JavaScript, Bash, HTML/CSS, Java
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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| Machine Learning, Natural Language Processing <i>Washington University in St. Louis, McKelvey School of Engineering</i> | September 2022 – Present St. Louis, MO |
| <ul style="list-style-type: none">Master's research advised by Professor Chenguang WangDeep language model for biomedical structure prediction | |
| Personal Research Site https://lienlearns.tech <i>ReactJS</i> | |