

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 <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

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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, save messages that float onto their page, throw messages back into oceanDeveloped through iterative, Agile minded methodologyImplemented with Flask following MVC architecture patternLeveraged environment variables to deploy production quality app to HerokuPython, 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 usersLearned about web app security principles: session management, user authentication, CSRF tokens, prepped SQL queriesLeveraged environment variables to deploy 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

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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 <i>St. Louis, MO</i> |
| <ul style="list-style-type: none">Responsible for holding office hours 4+ 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 3+ hours per week lecture and studio learning by facilitating small group problem solvingTeach C++ language features, memory management, environment set up, compilersResponsible 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, 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
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 <i>St. Louis, MO</i> |
| <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>React.js</i> | |