Lien Zhu

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EDUCATION

Washington University in St. Louis, McKelvey School of Engineering　　St. Louis, MO
Master of Engineering in Computer Science and Engineering, 4.0　　*January 2022 – May 2023*

Washington University in St. Louis　　St. Louis, MO
Bachelor of the Arts in Biology, 3.96　　*Aug. 2018 – May 2022*

EXPERIENCE

Full Stack Web Developer, Sudvarg Digital Solutions　　September 2022 – May 2023
Contract Developer　　*St. Louis, MO*
- Designed and developed LAMP stack, WordPress sites for local companies
- Initiated documentation and communication workflow system to streamline Agile scrum ceremonies and client meetings

Teaching Assistant, WUSTL McKelvey School of Engineering　　August 2022 – Present
Data Structures and Algorithms CSE247, Object Oriented Dev. Lab. CSE332　　*St. Louis, MO*
- Responsible for holding office hours 4+ hours per week with 20+ students per session
- Develop analogies and visual aids to make data structures, algorithms concepts more accessible for students
- Enhance lecture and studio learning by facilitating small group problem solving 3+ hours per week
- Teach C++ language features, memory management, environment set up, compilers
- Responsible for answering student questions on Piazza

PROJECTS

Message in a Flask | messageinaflask.com　　August 2022
- Designed and developed full-stack web app that implements message in a bottle concept
- Users can write messages, save messages that float onto their page, throw messages back into ocean
- Developed through iterative, Agile minded methodology
- Configured environment and deployed production quality app to Heroku
- Python, Flask, PostgreSQL, Jinja, MVC architecture pattern

Calendar | cleancalendar.herokuapp.com　　July 2022
- Designed and developed full-stack calendar web app that allows registered users to add events, edit events, tag events under categories, share events, and share calendars with other registered users
- Learned web app security principles: session management, user authentication, CSRF tokens, prepped SQL queries
- Configured environment and deployed production quality app to Heroku
- Linux, Apache, MySQL, PHP, JavaScript, AJAX

Personal Website | https://lienzhu.dev
- HTML, CSS, JavaScript

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　　September 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering　　*St. Louis, MO*
- Master's research advised by Professor Chenguang Wang
- Docker, Meta AI OPT

Personal Research Site | https://lienlearns.tech
React.js