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 — *August 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*
- Design and develop LAMP stack, WordPress sites for local St. Louis companies
- Initiated documentation and communication workflow system to streamline Agile scrum ceremonies and enhance client meeting effectiveness

Graduate Teaching Assistant, WUSTL McKelvey School of Engineering — August 2022 – Present
Data Structures and Algorithms CSE247, Object Oriented Dev. Lab. CSE332 — *St. Louis, MO*
- Teaching Assistant for 2 fundamental courses in CSE Dept.
- 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
- 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, categorize, edit 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