

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 August 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

EXPERIENCE

Full Stack Web Developer, Sudvarg Digital Solutions <i>Contract Developer</i> <ul style="list-style-type: none">Design and develop LAMP stack, WordPress sites for local St. Louis companiesCreated documentation and communication workflow for company wide efficiencyFacilitate client meetings to ensure product exceeds client expectations	September 2022 – May 2023 St. Louis, MO
Graduate Teaching Assistant, WUSTL McKelvey School of Engineering <i>Data Structures and Algorithms CSE247, Object Oriented Dev. Lab. CSE332</i> <ul style="list-style-type: none">Teaching Assistant for 2 fundamental courses in CSE DepartmentResponsible for holding office hours 4+ hours per week with 20+ students per sessionDevelop analogies and visual aids to make data structures, algorithms concepts more accessible for studentsEnhance lecture and studio learning by facilitating small group problem solving 3+ hours per weekTeach C++ language features, memory management, environment set up, compilersResponsible for answering student questions on Piazza	August 2022 – Present St. Louis, MO

PROJECTS

Message in a Flask messageinaflask.com <ul style="list-style-type: none">Designed and developed full-stack web app that implements message in a bottle conceptDeveloped through iterative, Agile minded methodologyConfigured environment and deployed production quality app to HerokuPython, Flask, PostgreSQL, Jinja, MVC architecture pattern	August 2022
Calendar cleancalendar.herokuapp.com <ul style="list-style-type: none">Designed and developed full-stack calendar web app that allows registered users to add, categorize, edit 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	July 2022
Personal Website https://lien Zhu.dev <ul style="list-style-type: none">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

Systems and Embedded Security <i>Washington University in St. Louis, McKelvey School of Engineering</i> <ul style="list-style-type: none">Master's project in collaboration with WUSTL CSPL led by Professor Ning ZhangLinux	October 2022 – Present St. Louis, MO
Personal Research Site https://lienlearns.tech <i>React.js</i>	