Lien Zhu

lienzhucs@gmail.com | linkedin.com/in/lienzhu | github.com/lienzhuzhu | U.S.A. Citizen | https://lienzhu.dev

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*

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 into their page, throw messages back into ocean
- Developed through iterative, Agile minded methodology
- Implemented with Flask using PostgreSQL following MVC architecture pattern
- Leveraged environment variables to deploy production quality app
- Python, Flask, PostgreSQL, Jinja

Calendar | cleancalendar.herokuapp.com — July 2022
- 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 users
- Full security considerations: session management, hashed passwords, CSRF tokens, etc
- Leveraged environment variables to deploy production quality app
- Linux, Apache, MySQL, PHP, JavaScript, AJAX

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

EXPERIENCE

Teaching Assistant, Data Structures and Algorithms CSE 247 — August 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering — *St. Louis, MO*
- Responsible for holding office hours 4+ hours per week with 20+ students per session
- Facilitate small group weekend problem solving sessions
- Develop analogies and visual aids to make challenging concepts more accessible for students

Teaching Assistant, Object Oriented Software Dev. Lab CSE 332S — August 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering — *St. Louis, MO*
- Streamline lecture and studio learning by facilitating small group problem solving, debugging student errors
- Teach C++ language features, memory management, environment set up, file structure
- Responsible 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

Machine Learning, Natural Language Processing — September 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering — *St. Louis, MO*
- Master's research advised by Professor Chenguang Wang
- Deep language model for biomedical structure prediction

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