

Luke Weber

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EDUCATION

Bachelor of Science in Computer Science, Valparaiso University, Valparaiso, IN

May 2021

Minor in Mathematics

GPA: 3.58 / 4.0 - Major GPA: 3.89 / 4.0

Presidential Scholarship Recipient; Dean's List

EXPERIENCE

Fresenius Kabi

Lake Zurich, IL

May 2019 - Present

Test Automation Software Engineer

- Collaborate with a small team to develop automated tests
- Develop automated tests for Tool Validation to the FDA
- Develop automated tests for the company's software suite
- Participate in daily standup and bi-weekly sprint meetings
- Complete manual testing for license validation
- Review and comment on team members' pull requests

Valparaiso University

Valparaiso, IN

Fall 2020 - Present

Software Engineering Research Group

- Investigation of software engineering factors in project handoff and long-term support of complex software systems
- Consideration and mitigation of risks from significant project staffing changeover
- Analyzed documents and artifacts of system development/operation (DevOps) and preservation of capabilities and data
- Consideration of curricular questions loosely related to efforts like POSSE, particularly focused on capstone-style courses.

PROJECTS

Virtual Laboratory for Flexural Beam Testing

Spring 2020

- Developed virtual laboratory for flexural beam testing
- Completed all stages of the development process
- Utilized Google Charts to visualize data
- Utilized MATLAB for image cropping
- Ran weekly meetings with my team of four
- Composed release notes and other documentation
- Participated at the Symposium on Undergraduate Research and Creative Expression program at the University

Microsoft Paint Equivalent

Fall 2019

- Developed a Microsoft Paint-like image application
- Utilized GUI implementation best practices
- Utilized the git version management system
- Utilized Java events and event handlers
- Leveraged multiple APIs to support an intense iterative development timetable

Interactive Graphic Hemisphere

Spring 2019

- Utilized Web Graphics Library to create 3D shapes
- Utilized trigonometry to make various calculations
- Created two hemispheres that rotate around the x, y, or z axis
- Created a color function to give the hemispheres a rainbow color

PUBLICATIONS

- Fleming, Drew; Sandmire, Gina; Weber, Luke; and Stanish, Emily, "Virtual Laboratory for Flexural Beam Testing" (2020). Symposium on Undergraduate Research and Creative Expression (SOURCE). 858.
Online at: <https://scholar.valpo.edu/cus/858>

CIVIL AND COMMUNITY INVOLVEMENT

Lambda Chi Alpha

Valparaiso, IN

November 2019 - Present

First Vice President

- Supervise and lead weekly officer meetings
- Help raise over \$20,000 for Saint Baldrick's foundation
- Serve as a mediator between members if issues arise
- Supervise needed Executive Committee meetings

TECHNICAL SKILLS

Java, Python, HTML/CSS, PHP, JavaScript, Ruby/Ruby on Rails, Git/Github, SQLite, Jama Software, YAML, GNU/Linux, UML, Maple, Netbeans, Microsoft Windows, LaTeX, WebGL, Angular, node.js