

Melanie Mai

Available for Co-op: Summer 2021

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TECHNICAL SKILLS

C++, Java, Python, VBA, MATLAB, HTML, CSS, Javascript, Git

EDUCATION

University of Cincinnati

Expected Graduation: May 2023

Bachelor of Science in Computer Science

GPA - 3.739

PROFESSIONAL EXPERIENCE

Siemens, Strategic Student Program Co-op

Aug 2020 - Jan 2021

Meshing & Geometric Abstraction, Simulation and Test Solutions

- Improved auto-test efficacy by identifying pertinent C++ data from software, printing it to autotest XML files, and remastering existing autotests to utilize new data in comparisons.
- Reduced Scrum team's technical debt by constructing and implementing a new dropdown menu option in Simcenter to identify and create groups of short edges on a FEM.

Siemens, Strategic Student Program Co-op

Jan 2020 - May 2020

Meshing & Geometric Abstraction, Simulation and Test Solutions

- Reduced Scrum team's technical debt by replacing an outdated API with a new API in over 20 files.
- Implemented consistent formatting and better readability to over 20 different user-facing information windows for new API
- Facilitated in porting team owned files to main codebase by modifying more than 50 files to meet new file naming standards and code compatibility.

PROJECTS

Bank Account Application

Nov 2020 - Nov 2020

- Built an application to handle customer bank account requests using OOP in Java
- Implemented CSV readability to ensure convenient data imports

Student Database Application

Oct 2020 - Nov 2020

- Created an application to manage student enrollments and tuition applying OOP in Java
- Enhanced application simplicity by using text-based UI to show information

Email Administrator Application

Aug 2020 - Aug 2020

- Developed an application to produce email accounts for new hires at a company utilizing OOP in Java
- Enhanced application simplicity by using text-based UI to show information

Battleships

Aug 2019 - Aug 2019

- Created a 1-way Battleships game applying OOP in C++
- Developed and applied, algorithms and time-efficient production strategies over a 2-week time period

ORGANIZATIONS

Society of Asian Scientists and Engineers, UC Chapter — President Aug 2020 - Present

- Increased student membership by 21% through effective public relations efforts
- Led a cabinet of five officers and held biweekly board meetings to ensure efficient delegation of duties