

Mark Mueller

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EDUCATION

Southwestern University

Bachelor of Arts in Computer Science, Minor in German

GPA: 4.0

Aug. 2020 – May 2024

HONORS

Computer Science Club President, Southwestern University (2023-Present)

Upsilon Pi Epsilon Member, Southwestern University (2023-Present)

Alpha Chi Member, Southwestern University (2022-Present)

3rd Place in Poster Competition, Consortium for Computing Sciences in Colleges (CCSC) (2023)

RESEARCH AND WORK EXPERIENCE

Software Development Intern

Wridz

November 2023 – Present

Austin, TX

- Implementing language support for over 20 languages using Java and AWS libraries
- Reformatting MySQL log databases to be more efficient and manageable
- Refactoring existing code to work with better build tools; migrating from Apache Ant to Maven
- Collaborating with coworkers to troubleshoot issues as they arise, primarily on server side

Operations Research Research Assistant

Southwestern University

May 2023 – Present

Georgetown, TX

- Developed a Python program that generates linear programs to schedule Southwestern University courses to avoid conflicts, given sets of constraints
- Incorporated pyGLPK into the project replacing GLPSol leading to 20% larger models to be evaluated
- Formatted solutions from the solvers into a readable format for clients that is also editable

Artificial Intelligence Research Assistant

Southwestern University

June 2022 – May 2023

Georgetown, TX

- Collaborated with a small team to have artificial intelligence generate flying machines in the video game Minecraft
- Implemented Quality Diversity algorithms such as MAP Elites and Novelty Search using Java and Python
- Contributed 200+ commits using Github to work in conjunction with collaborators
- Drafted and revised an academic research paper, submitted and accepted at the Genetic and Evolutionary Computation Conference (GECCO)
- Presented results in multiple conferences, one of which was international

Data Science Research Assistant

Southwestern University

January 2022 – May 2022

Georgetown, TX

- Interpreted datasets to discover trends in sincerity within Doodle poll submissions
- Formatted data in Python to be used to evaluate and visualize trends in Excel
- Finalized an academic research paper, accepted at the Cooperative Design Visualization and Engineering Conference (CDVE)

Student Technical Consultant

Southwestern University

August 2021 – Present

Georgetown, TX

- Provided consultation when faculty, staff, or students had technology related issues
- Communicated with managers to set up computers and audio visual sets and strikes across campus
- Maintained printer supplies and statuses for 100+ on campus printers

TECHNICAL SKILLS

Programming: Java, Python, C, MySQL, C++, R, X86 Assembly, HTML, PHP, AWS

Computer: Mac, PC, Excel, Git/Github, LaTeX, Eclipse, VS Code, Glpsol, Adobe Photoshop and Premier

Languages: German (intermediate-advanced proficiency)