

April ROSZKOWSKI

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EDUCATION

- May 2023 **University of Wisconsin-Madison, College of Letters and Sciences**
- › Masters of Science in Computer Science
 - › Focused coursework on computer graphics/visualization and topics in applied mathematics
- May 2021 **University of Minnesota-Twin Cities, College of Science and Engineering**
- › Bachelors of Science in Computer Science, minor in Mathematics

SKILLS

Programming	C, C++, Python, Java, OpenGL, JavaScript, HTML, CSS
Development tools	Visual Studio, git, SVN, Unix
Other software	MatLab, LaTeX, Microsoft Office

RESEARCH

- December 2022 **Data Visualization, UNIVERSITY OF WISCONSIN**
September 2022
- › Studied use of dimensionality reduction techniques in academia under professor Michael Gleicher
 - › Performed informal literature review of how authors leveraged DR techniques (e.g. for visual evaluation of clustering, as preprocessing step in data analysis workflow)
- March 2020 **Applied Mathematics, CORNELL UNIVERSITY**
June 2019
- › Studied multi-robot motion planning using optimal control theory under professor Andrew Borum
 - › Visualized bifurcations within our problem's solution space and characterized general stable solutions to the system
 - › See website for summary slide deck
- March 2019 **Computer Graphics, UNIVERSITY OF MINNESOTA**
June 2018
- › Recreated traditional Micronesian seafaring methods using virtual reality to bolster Micronesian cultural heritage under professor Daniel Keefe
 - › Collaborated with and maintained a code base for 5 other undergraduates and myself

EMPLOYMENT

- May 2023 **Teaching Assistant, UNIVERSITY OF WISCONSIN**
September 2021
- › TA for the "Programming III" course
 - › Graded course work, held office hours, worked one-on-one with students
 - › Helped with administrative tasks : wrote scripts to automate grading, organized via spreadsheets
- September 2020 **CNC Toolpathing Software Intern, PROTO LABS**
May 2020
- › Worked alongside a scrum team developing new features for in-house C++ software used to generate lathe and mill toolpaths for part machining
 - › Designed and implemented a new model for a mill-turn machine improving machining time estimates. Collected and analyzed data to determine efficacy
 - › Significantly improved runtime of thin area detection algorithm