

EMILY KORANDA

SOFTWARE ENGINEER

PERSONAL PROFILE

I am a current student at the University of Wisconsin, Madison studying computer science with a minor in digital studies. I am a devoted and hardworking student who has a passion for learning and creativity.

HOBBIES

- MadTappers, 2018 - Present
- Girls Who Code UW-Madison, 2018 - 2019
- Girls Who Code UW-Milwaukee, 2016

CONTACT INFORMATION



LinkedIn:

<https://www.linkedin.com/in/emily-koranda-6658ab181/>



Website:

<https://www.emilykatekoranda.com/>



GitHub: <https://github.com/ekoranda>

PROJECTS

- B+ tree (built on top of a database management system) that acted as an index, holding <rid, index> pairs
- Created a round-robin scheduler (built on top of a toy kernel) that compensates processes that relinquish the CPU
- Implemented hierarchical clustering to plot and predict covid-19 trends
- Implemented a minimax algorithm to develop an AI game player for the game Teeko

WORK EXPERIENCE

Computer Science Intern



Research Data and Communications Research

(Summer 2019 and Summer 2020)

- Created an event-driven workflow service using Model-View-Controller (MVC) framework, jQuery, and Java.
- Workflow built upon Imixs-Workflow, an open-source business process management tool built on BPMN logic.
- The BioCompac workflow provides extensible workflow management for submitting, reviewing, and managing proposals for HPC resources provided by the Biocompace project.

Nanny and Child Transportation Services



(Summer 2017 and Summer 2018)

EDUCATION

University of Wisconsin - Madison

Bachelor of Science in Computer Science

(09/2018 - 05/2022)



GPA: 3.69

- **Relevant coursework:** Programming III/Data Structures, Machine Organization and Programming, Introduction to Artificial Intelligence, Introductions to Algorithms, Introduction to Operating Systems, Database Management Systems

- **Minor in digital studies**

- **Relevant coursework:** Introduction to Digital Forms, Intro to Digital Information, The Information Society, Code and Power, Digital Globe: GIScience & Tech

Wauwatosa East High School



Graduated Class of 2018, High Honors

GPA: 3.8/4.0

- Student Leader
- Band Section Leader
- Member, National Honors Society
- Senior dancer, Danceworks Youth Performance Company

TECHNICAL SKILLS

- Proficient in Object-Oriented Programming, Datastructures, database design, Algorithms
- Proficient in Java, C/C++, Python, R
- Proficient in XHTML, Workflow design, XML Schema, VMC framework
- Familiar with Web Authentication SAML, JQuery, and CSS