

Christian Wendlandt

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🌐 <https://christianplusplus.github.io>

Education

University of Wisconsin Oshkosh

Oshkosh, WI

Bachelor of Science, Summa Cum Laude

Nov 2015 - May 2019

Major: Computer Science (Computer Science)

GPA: 3.9/4.0

Major: Mathematics (Liberal Arts)

ABET Accredited

Technical Skills

- Proficient in Java, Groovy, MOCA, JavaScript, HTML, CSS, WebGL, SQL dialects
- Professional use with Eclipse, SVN, GitHub, MSSQL, Microsoft Office, Bugzilla
- Experience with Python, PHP, C, CMD, PowerShell, MIPS ASM, HDL, node.js, sablecc
- Math literacy in Calculus, Linear Algebra, Proofs, Probability, Statistics, Graph Theory

Professional Work Experience

Smart-IS

Associate Consultant

Mar 2020 - Present

- Programmed warehouse solutions using C, Java, and Groovy components
- Designed, implemented, and maintained database migration software
- Integrated Web API with business logic and built API creation tools
- Performed maintenance, consultation, and warehouse configuration for clients

Target Corporation

Tech Consultant

Nov 2019 - Feb 2020

- Investigated trends to help guests find technology solutions and accessories
- Leveraged store/warehouse management tools to aid guest engagement while balancing tasks
- Performed stocking, shelving, organizing, and auditing of inventory to maintain department standards

UW - Oshkosh, CS Dept.

Research Assistant

Feb 2018 - Aug 2018

- Explored research topics with supporting papers
- Authored thesis and supporting algorithm with the aid of academic collaborators

UW - Oshkosh

Math and Computer Science Tutor

Sep 2017 - Dec 2018

- Identified cognitive roadblocks and provided guidance to proficiency
- Taught best practices to new students for personal and submitted work
- Guided students to documentation and source materials to encourage independent learning

Projects

3D aTAM Simulator

Active At 🌐

WebGL, JavaScript, HTML, CSS

- Real-time simulation of the abstract Tile Assembly Model
- Optimised for performance with pre-render back-face culling and constant-time lookup
- WebGL allows for platform independence and ease-of-use with any browser

Connect Four Bot

Active At 🌐

Python

- AI opponent capable of playing Connect Four
- Utilizes search trees with alpha-beta pruning for determining future board states
- Implements custom state analysis algorithm for determining optimal play

Database Query GUI

Java, SQL

- Database GUI with login authentication and multi-level account access
- Engineered for ease of use and SQL-illiterate users
- Secured with password salting and hashing

Wiki Website

SQL, PHP, JavaScript, HTML, CSS

- Student team development project; authored roughly 30% of code
- Demonstrated requirements gathering, design documentation, code review, unit testing
- Collaborated on database, search features, login authentication, tiered access

Publications

Furcy D., Summers S.M., Wendlandt C. (2019) New Bounds on the Tile Complexity of Thin Rectangles at Temperature-1. In: Thachuk C., Liu Y. (eds) DNA Computing and Molecular Programming. DNA 2019. Lecture Notes in Computer Science, vol 11648. Springer, Cham