

Christian Wendlandt

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

Work Experience

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| Smart-IS | <i>Software Developer</i> | Mar 2020 - Apr 2023 |
| <ul style="list-style-type: none">• Programmed warehouse solutions using C, Java, SQL, Groovy, and MOCA components• Produced Java application for migrating/partitioning data to SQL Server, Oracle, and Google BigQuery• Restored Java dashboard application by refactoring anti-patterns and updating documentation• Developed application portal as part of an ASP.NET Azure DevOps team• Customized WMS Integration API with business logic and built supplementary CRUD tools• Performed testing, configuration, and data migrations for warehouse management systems• Provided onsite support for warehouse go-lives, system overhauls, and end-user testing | | |
| Target Corporation | <i>Tech Consultant</i> | Nov 2019 - Mar 2020 |
| <ul style="list-style-type: none">• 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. | <i>Research Assistant</i> | Feb 2018 - Aug 2018 |
| <ul style="list-style-type: none">• Explored research topics with supporting papers• Authored thesis and supporting algorithm with academic collaborators | | |
| UW - Oshkosh | <i>Math and Computer Science Tutor</i> | Sep 2017 - Dec 2018 |
| <ul style="list-style-type: none">• 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 | | |

Education

University of Wisconsin Oshkosh	Oshkosh, WI
Bachelor of Science, Summa Cum Laude	Nov 2015 - May 2019
Major: Computer Science	GPA: 3.9/4.0
Major: Mathematics	ABET Accredited

Skills

- Proficient in Java, Groovy, MOCA, JavaScript, HTML, CSS, SQL dialects
- Experienced with Python, C, C#, ASP.NET, XSL, WebGL, Vue.js, CMD, PowerShell, MIPS ASM
- Professional use with Eclipse, Visual Studio, SVN, GitHub, MSSQL, Bugzilla, JIRA, Azure DevOps
- Math literacy in Calculus, Linear Algebra, Proofs, Probability & Statistics, Graph Theory

Personal Projects

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|--|---|---------------------------------------|
| Game Optimization Website | https://gideonstruedamage.com | JavaScript, HTML, CSS, Vue.js, Groovy |
| <ul style="list-style-type: none">• Implementation of a Responsive, Reactive, Single-Page Application backed by Vue.js and Web Workers• Employs fresh game data by way of a custom ETL pipeline implemented with cURL and Groovy• Separates smooth and hilly data regions based on item pools and user parameters for speed and accuracy• Performs Steepest-Ascent and Brute-Force algorithms on their respective regions | | |
| 3D aTAM Simulator | Active At 🌐 | WebGL, JavaScript, HTML, CSS |
| <ul style="list-style-type: none">• Real-time simulation of the abstract Tile Assembly Model• Optimised for graphical performance with pre-render back-face culling• WebGL allows for platform independence and ease-of-use with any browser | | |
| Connect Four Bot | Active At 🌐 | Python, Skulpt |
| <ul style="list-style-type: none">• AI opponent capable of playing Connect Four• Utilizes search trees with alpha-beta pruning for generating and filtering future board states• Implements custom state analysis algorithm for determining valuable play choices | | |

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