

Tyler Rottmann

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Personal Website: <https://tylerrottman.github.io/PersonalPortfolio>

EDUCATION

University of Wisconsin - Milwaukee - Class of 2027

Milwaukee, WI

Major: BS in Computer Science Minor: Information Technology GPA: 3.95

PROFESSIONAL EXPERIENCE

Software Engineering Intern - *Web Surfing Studios*

June 2025-Present

- Built ASP.NET MVC C# full-stack application which connects volunteers with non-profit organizations in their area every week.
- Utilized Entity Framework & migrations to manage remote AWS RDS MySQL instances.
- Constructed CI & CD Azure DevOps pipelines which connected Git to AWS Elastic Beanstalk applications through Dev, Test, and Prod environments.
- Moved website image & file storage from local AppData folder to AWS S3 buckets to allow the site to horizontally scale.

Software Development Intern - *CharityEZ*

July 2024-May 2025

- Designed, developed, and tested features for a high-performance search engine enabling companies to efficiently locate and evaluate charities and nonprofits.
- Collaborated with the development team to implement front-end and back-end solutions using JavaScript, HTML, CSS, PHP, and MySQL.
- Applied software development best practices, including debugging, code optimization, and database query tuning to enhance system performance and reliability.

Mechanical Engineering Intern - *Velicon*

September 2022-December 2022

- Learned how to make mechanical drawings, responsible for creating two high quality drawings per week.
 - Implemented all drawings into a blueprint software, AutoCAD.
 - Was a part of a four person team that worked together to build large, high speed motors.
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PERSONAL PROJECTS

Munera - *Task Management System*

- Allows users to assemble teams, make projects, and add tasks for each project, and assign tasks to a team member. Made using Django and MySQL.

AI Chatbot - *OpenAI Based Chatbot*

- A chatbot that connects with the OpenAI API to answer any questions the user might have. Built using Python and the OpenAI API for the backend, with Voiceflow as the frontend.

Rottmann's Adventure - *16 Bit Retro Style Game*

- A 16 bit game built with Java. Users can walk around, collide with obstacles, pick up and use items, and interact with NPCs.
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SKILLS

- Languages: C# / .NET, Java, Python, HTML, CSS, JavaScript
- Frameworks: ASP.NET MVC, Bootstrap, Tailwind, Django
- Version Control Systems: Git, GitHub
- Databases: Microsoft SQL, MySQL, PostgreSQL, NoSQL, MongoDB
- Agile Methodology & Azure DevOps
- CI/CD: DevOps Build & Release Pipelines
- Misc: Entity Framework, WordPress, Blender, AutoCAD, Adobe Photoshop
- AWS: RDS, S3, Elastic Beanstalk, AppConfig, Secrets Manager, Lambda

AWARDS/HONORS

- UW Milwaukee Dean's List
- Congressional Award - Bronze Medal
- 200 Registered Volunteer Hours