

Henrik Wiener

Software Engineer

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Summary

Software engineer with two years of learning and working with C#, Java, JavaScript, HTML, CSS, SQL, and Python. Soon to receive my Bachelor's degree in computer science with an emphasis on software development. Experience working on console, front end, back end, and web applications including technologies such as React and multi-threading.

Skills

C#, Java, JavaScript, HTML5, CSS, Python, T-SQL, SQL, Microsoft Azure, Git

.NET, ASP.NET CORE, .NET MAUI, .NET Web API, Entity Framework, Visual Studio, JavaFX, React.js, Node.js, Puppeteer.js, Bootstrap, Font Awesome, SSMS, REST, HTTP

Portfolio

•.NET MAUI Fantasy Football App With Entity Framework, SQL DB, Custom Web API Authentication/Controller

<https://www.henrikwiener.com/> OR <https://buttonhookfantasyfootballdownload.b-cdn.net/Button%20Hook%20Fantasy%20Football.exe>

•C# Concurrency Calculator

<https://github.com/danwiener/ConcurrentCalculations>

•Node.js Password Guessing App

<https://github.com/danwiener/GuessThePin>

•React.js Personal Portfolio Website

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

Work experience

Microsoft Software and Systems Academy (MSSA)

October 2022 - February 2023

Cloud Application Development Student

•Designed .NET MAUI fantasy football application, downloadable from my website <https://www.henrikwiener.com/> or <https://buttonhookfantasyfootballdownload.b-cdn.net/Button%20Hook%20Fantasy%20Football.exe> and submitted to Microsoft App store. Custom web API authentication and controller backend permits users to download and run this application from anywhere in the world, and securely login by connecting to API and SQL database hosted using Microsoft Azure. Seamlessly integrates frontend UI with complex backend operations, efficiently manages CRUD operations for complex schema of database tables and updates UI in real time. Password generator logic implemented as well as reset password email capability.

•Designed C# concurrency calculator which dropped runtime from ~27 seconds to ~4.2 seconds for a 640% reduction due to multithreading.

•Designed Node.js/Puppeteer.js app which opens stateless browser and iteratively guesses 4 digit pin on <https://www.guessthepin.com/>. Password on this website changes periodically and app prints out result of each guess until correct password is guessed.

•Designed React.js personal portfolio website utilizing React Components, React States, Neumorphic Designs, React-Icons, HTML5, CSS/Bootstrap conditional styling, and extensive animations. <https://www.henrikwiener.com/>

•Took initiative to help establish MSSA Discord server, was second member to join, and one of leading administrators of the server to help recruit approximately 50% of MSSA members throughout cohorts to help create fun and collaborative working environment

•Took initiative prior to MSSA starting and during it to meet with multiple individuals to help them practice and improve their data structures & algorithms skills. Result was I was told I inspired multiple individuals and helped them become better engineers, and told by multiple individuals I am one of the most dedicated engineers they have ever seen, going above and beyond every step of the way. Was nicknamed "L33tCodeActual" by peers in cohort.

United States Marine Corps

March 2019 - March 2023

Lead 3D Printing Engineer

- Utilized Solidworks Suite 3D CAD software, FARO laser scanning arm and DesignX 3D scan, reverse engineering, and advanced rendering software
- Wrote C# script to sift through data pertaining to thousands of parts in seconds which would have taken days/weeks to manually complete
- Analyzed part repositories and part orders to identify parts suitable for additive manufacturing, to provide solutions for problems including: supply-chain issues, long-lead wait times, and high costs
- Improved mission readiness by doubling 3D printing capacity, overseeing acquisition of \$20,000 of new equipment, shortening customer wait time by 2x and training and managing multiple teams of up to six personnel
- Reverse engineered and 3D printed numerous parts difficult or impossible to replace from original manufacturer, to save thousands of dollars, i.e. chamber flag project, ~\$3,700 in savings
- Closely collaborated with and served as communication liaison among multiple organizations including Marine Corps headquarters and engineering leader for multiple teams

Education

Park University

- Dec 2023

Bachelor of Science: Computer Science with Emphasis on Software Development

•4.0 GPA