

Joseph Dobbelaar

Freelance Software Engineer & Computer Science Student at WPI

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Experience

Freelance Web Development – Self Employed

Current

Building websites for individuals and businesses; clients can edit site content on their own by signing in with Google.

UMass Chan Medical School – *Software Engineer*

April 2023 - Current

Singlehandedly building the computing infrastructure for UMass Chan's PUPSys—a system for preventing pressure ulcers in hospital patients. Ensuring HIPAA compliant database.

Citrus Financial – *Chief Technology Officer*

June 2022 - April 2023

Started a company with some friends around a mobile app aimed at simplifying how friends, couples, and roommates split shared expenses. Built the app alone in React Native with Google Firebase and Express.js as the backend. Spoke with possible investors but, ultimately, my partners graduated and their priorities shifted.

Sentaca – *Full-Time Software Engineer Intern*

June 2022 - August 2022 (Summer 2022)

Created virtual machines and networks using AWS CloudFormation. Learned to build Kubernetes clusters. Laid foundation for the migration of a monolithic software to a cloud-based microservices architecture. Hands-on experience with AWS cloud computing technologies and design principles.

Blueport Commerce – *Full-Time Product Reliability Intern*

June 2021 - August 2021 (Summer 2021)

Wrote and repaired automated tests in C#, ensuring that all code in production was bug-free. Gained some SQL experience. Became familiar with Agile Scrum methodology, code documentation best practices, and other aspects of team development.

Empow Studios – *Lead Instructor & Healthcare Supervisor*

April 2018 - September 2020 & November 2021 - May 2022

Worked as a Lead Instructor and Healthcare Supervisor for children grades 2-8 teaching Java, Python, game design, animation, 3D printing, and more. Was the only instructor for the "Python Advanced Team," a class on program design concepts like team planning, git usage, and code documentation.

Zaniac – *Instructor*

April 2017 - February 2018

Worked as an Instructor for children K-8 teaching STEM through 3D printing, coding, math tutoring, and more.

Skills

- ★ React.js & Express.js
- ★ Google Firebase
- ★ UI / UX design
- ★ JavaScript, Typescript, Java, C#, C, C++, Python
- ★ Confident full-stack software engineer
- ★ Test-driven software development veteran
- ★ Experienced in code documentation
- ★ Gifted team leader
- ★ Agile Scrum
- ★ SQL and noSQL databases
- ★ Motivated self educator
- ★ Great in customer service

Projects

Web-Legos – 2023

Creating a set of my own libraries for quick, sensible web development. I've used these tools to build websites for clients, as well as my personal portfolio.

WPI Student Success Handbook – 2023

Built a mobile-friendly website for incoming freshmen at WPI to access their resources. The Student Success Handbook is designed to ensure that all students, including those from diverse backgrounds, can access and benefit from campus resources.

Árboles Mágicos – 2023

Built an app in DOTNET Maui that allows users to mark the locations of flowering trees on a public map.

Citrus Financial – 2022 & 2023

Built an app in React Native to allow for easy, trust based expense splitting and bookkeeping. There were several iterations: a Django version, two React web apps, and finally a React Native mobile application.

Medical Tracker – 2022

Worked on a team using Agile Scrum methodology to create an application for hospital employees to create and organize tasks.

WICN Virtual Environment – 2021

Worked on a team in collaboration with Worcester radio station to create a virtual space for live music performances.