

John Paul O'Neill

Software Developer

2817 Northfield Rd, Charlottesville, VA 22901

📞 708-689-7128 · ✉️ jp@freebasil.xyz · 🌐 [oneilljp](#) · 🎧 [oneilljp](#) · 📺 [John Paul O'Neill](#)

Work Experience

Software Developer

Verona, WI

Epic Systems

2022 - 2024

Worked on the research analytics portal for the Cosmos dataset

- Served as the lead developer and designer for a multi-release infrastructure transition of the product's end-user portal from VB/Javascript to a web framework consisting of ASP.NET Core and React in response to platform deprecation.
- Designed and contributed development towards an automated user provisioning pipeline, saving internal support staff 10-15 hours of account setup and maintenance each week while also enabling end-users to more easily request access for their staff.
- Supported team members as the go-to Git expert as the company transitioned from SVN to Git, allowing for a near seamless cutover of our team's version control software.
- Mentored two new software developers at the start of their careers, coaching them through writing their first designs and bug fixes, and in owning a project from scoping to release.

Decimal Learning Game Programmer

Pittsburg, PA

Carnegie Mellon Human Computer Interaction Institute

June 2021 - August 2021

- Wrote and revised code with a team of interns to modify an existing decimal number learning game, Decimal Point, in order to prepare it for new classroom studies.

Object-Oriented Programming Community Leader

Ann Arbor, MI

University of Michigan

2021 - 2022

- Led a team of interns in aggregating knowledge about Object-Oriented Programming concepts and languages on the large-scale platform 1Cademy with a focus on organizing information in nodes through prerequisite linking.
- Coordinated interns in assessing the specific needs of other communities on the 1Cademy platform and in implementing programming solutions to alleviate said needs in smaller project teams.

Projects

Homelab

[Source Code](#)

Maintainer

2022 - Present

- Utilized Nix to declaratively deploy and maintain services on non-production servers in my home.
- Primarily used for personal media management, home automation, and experimenting with open source projects.

GroupMe TUI

[Source Code](#)

Developer/Designer

May 2021 - August 2021

- Created a cross-platform terminal user interface to act as an alternative to the GroupMe web client.

Algovisualizer

[Source Code](#)

Developer/Designer

May 2020 - August 2020

- Created a web application to visualize different pathfinding and maze generation algorithms on a two-dimensional grid to serve as a teaching aid for college students.

Technical Skills

Languages C#, Typescript, C, Zig, Go, Rust, Nix, Node.js

Back End .NET Core, Microsoft SQL Server, MongoDB

Front End React, SCSS, JQuery

DevOps Nix, Ansible, Docker, Proxmox

Operating Systems Linux, Windows, MacOS

Version Control Git, SVN

Education

University of Michigan

Ann Arbor, MI

B.S. Computer Science

2018 - 2022