Emil Sayahi

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Education

Turpin High School

Cincinnati, OH | September 2017 - May 2020

Skills

CI/CD • Git • GTK • IPFS • Rust • C# • .NET Core • Java • Python • JavaScript • .NET Framework • Visual Basic • Jamstack • HTML • CSS • ASP.NET • Blazor • Unix-like systems

Coursework

Java, Python, JavaScript

• Structures and algorithms • Introduction to computer systems • Principles of object-oriented programming • Parallel and sequential data • Software system construction • Principles of imperative programming

Activities

Forest Hills School District, Gaming Tournaments | Organizer

• Assisted with tournament organization (September 2017 - May 2018)
• President, Smash Bros. Club - Organized gaming tournaments every week (September 2018 - May 2019)
• Assistant seasonal tournament organizer at Anderson High School (September 2019 - May 2020)

Open-source

Oku | Lead developer, maintainer

November 2020 - Present

Peer-to-peer browser aiming to create an alternative to the Web. Written in Rust, GUI in GTK.

Dokkoo | Lead developer, maintainer

October 2020 - Present

Data-driven media publication tool built for government, healthcare, and digital news. Potentially the fastest open-source Jamstack tool, written in Rust.

Macro Output Key Kit | Lead developer, maintainer

Technical standard for creating Jamstack-architectured projects.

Web Presence

GitHub: Dirout

Blog: Mousehole

Experience

Turpin High School, Computer Science Lab | Lead Developer

August 2019 - May 2020 | Cincinnati, OH

• Develop backend and frontend code for Diademos, an Electron application that uses API calls, RSS feed reading, and JavaScript libraries to display news articles from a variety of press outlets, along with a veritability score and tone detection for each article.
• Constructing a static web content publishing system, WDHAN, using Liquid syntax, Markdown, and C# for page generation.

Nagel Middle School, Tech Squad | IT Assistant

August 2015 - May 2016 | Cincinnati, OH

• Assisted district IT daily in their work. • Diagnosed and repaired district hardware. • Corrected security issues with district network systems. • Addressed staff support tickets. • Performed yearly maintenance tasks. • Took hardware inventory. • Prepared classrooms for standardized testing.

Projects

Mousehole | Lead developer, repository manager

Q1 2021

Mobile-friendly blog with dark mode, written as a Mokk.

Dirout.github.io | Lead developer, repository manager

Homepage for Dirout, a Mokk which uses CI & CD to update the page using GitHub data accessed using Rust code.

Ephyra | Lead developer, repository manager

Example of a peer-to-peer, decentralized social network. Uses IPFS, viewable with Oku.

SketchSpace | Lead developer, repository manager

Summer 2018

Web app to publish comics on the internet. Uses Jekyll for static page generation.

FHSDTime | Developer

Q1 2016

The software powering the time displays throughout Nagel Middle School, written in VB.NET.

VBCalc | Developer

Q3 2015

A WinForms GUI calculator program, written in VB.NET.