Welcome to my resume!

It has two parts, my Professional Experience and Open-Source Contributions and Projects

The resume is available as .html and .pdf.

Narrative

I am a biological scientist because I study and research on bioinformatics, genomics and computational biology. Meaning I hold a BSc in some biological science degree but also I am a programmer.

I am a programmer because I like writing code just for the sake of it.

I write code in C#, Rust, TypeScript and python. I can also whip up some perl scripts whenever I'm feeling like it.

I build systems and I contribute to several open-source projects.

I love teaching!

See, for example, my YouTube channel where I make programming and software development tutorials (YouTube)

Oh, and I love writing :-)

Contacts

Name
Faith Olusegun

GitHub
https://github.com/propenster

Email
See GitHub profile

Core Competencies

- Building complex software solutions from nothing
- Rust and C# mastery

Education

- 2013-2018, Bachelor of Technology
  Federal University of Technology Akure, Nigeria
  First-class honors (4.51/5.00)

Professional Experience

Asset and Resource Management Holding Company

From Apr 2023

https://www.arm.com.ng

:Software Developer

• Designed and developed software applications that have driven over USD 10 million in remittances and investment portfolio. • Re-engineered a statement generation and dispatch service that saw an over 1500% performance improvement and time to completion reduced from over 5 days to generate and dispatch statements for 100,000 clients to 4 hours only. • Trained and mentored other software developers on best practices, secure coding, and API optimization techniques.

Sobel.io

From Jun 2023

https://www.sobel.io

:Rust Developer

I am a member of the dev team for sobel.io and a contributor to some of their open-source projects including llm-chains, llm-chains-opanai, and comparator-rs

• Participated in systems and large language models research in the Sobel-Stockholm University partnership. Our project, “Comparator,” a tool for psychotherapists, was featured on Swedish Radio. • Fine-tuned the image classifier and emotion detector models of the comparator-rs project. • Contributed to the company’s core open source and in-house projects built in Rust, including llm-chain, llm-chain-openai, and empatik

Parallex Bank Limited

Mar 2022 to Apr 2023

htttps://www.parallexbank.ng

:Software Engineer

• Designed, architected, and implemented practical financial software solutions. • Implemented the bank’s core integration to switches, third-party Fintechs, Nigeria Inter-Bank Settlement Scheme (NIBSS), and the Central Bank of Nigeria (CBN). • Championed and saw to the completion of important integrations to drive the bank’s digital transformation program.

Wragby Business Solutions and Technologies

`Oct 2021 to Mar 2022`

https://www.wragbysolutions.com

:Senior Backend Engineering Consultant

• Designed and implemented practical software solutions. • Designed and developed product barcoding and QR coding solutions for pharmaceuticals and supermarkets, installed and trained customers on the usage of the software. • Worked with Software architects, Sys Admins, and Project Managers to develop business solutions using Microsoft technologies.

Fidelity Bank PLC

`Sep 2020 to Oct 2021`

https://www.fidelitybank.ng

:Software Developer

• Worked in an Agile team of Software Developers, Built and integrated Application Programming Interfaces (APIs) to drive banking processes using clean code architecture. • Built and deployed different API components to different Azure environments, IIS, and unit tested different components using the xUnit testing framework. • Maintained and provided technical support for applications in production, including a visitor management system serving front desk officers, an SME account opening portal serving over 1 million businesses, and Azure API Management and delegated portals supporting the bank's flagship open API product.

Open-Source Contributions and Projects

File Query Language (FQL)

Overview: FQL (File Query Language) is a simple and powerful file querying language designed to help you efficiently search and extract information from text files. Whether you need to analyze log files, parse JSON, or extract specific content from text files, FQL provides a versatile set of commands to simplify the process.
Tools: Rust, VSCode, git.
Role: Author and core maintainer
Link: https://github.com/propenster/fql

PipenGeneX

Overview: pipengenex is a powerful framework designed for creating and executing Bioinformatic pipeline workflows. It includes a Command-Line Utility (CLI) tool for effortlessly running pipeline workflows and tasks defined through JSON workflow definitions. Some notable features of pipengenex include task parallelization and flexible workflow configuration.
Tools: Rust, C#, VSCode, git, Perl.
Role: Author and core maintainer
Link: https://github.com/propenster/pipengenex

ERVCaller-rs

Overview: ERVCaller-rs is a rust port of the popular tool designed to accurately detect and genotype non-reference unfixed endogenous retroviruses (ERVs) and other transposable elements (TEs) in the human genome using next-generation sequencing (NGS) data. The original ERVCaller package was written in perl.
Tools: Rust, VSCode, git, Perl.
Role: Author and core maintainer
Link(s): https://github.com/xunchen85/ERVcaller https://github.com/propenster/ERVCaller-rs

BioBencher

Overview: This is a tool that benchmarks performance and CPU footprint bioinformatics and genomic analysis tools particularly MSA, phyllo tools using our base debigenic genomic and bioinformatic analysis pipeline.
Tools: C#, Rust, docker, git, debigenic, BEDTools, BLAST, Clustalw2, Phylip, HMMER, MUMER, QuEST, VELVET.
Role: Author and core maintainer
Link(s): https://github.com/propenster/biobencher https://hub.docker.com/repository/docker/propenster/debigenic

debigenic

Overview: is an open-source genomic and bioinformatics data analysis pipeline that runs on Debian Linux (Ubuntu 22.04) and contains a setup of over 50 genomic and bioinformatic exploration and analysis tools. It is reproducible, duplicatable, sharable, usable and extendable by anyone, any researcher anywhere in the world. With debigenic, you do no not need to carry an office or research computer anywhere, just find any PC or laptop that could run docker and you have a whole virtual machine (container) that has everything you need for bioinformatics at least almost every tool you might need. It is like you could carry your bioinformatics lab everywhere and in fact share you lab with anyone you want irrespective of where they are.
Tools: docker, linux bash shell, git.
Role: Author and core maintainer
Link: https://hub.docker.com/repository/docker/propenster/debigenic/general

Clash

Overview: is a simple to use, efficient, and full-featured Command Line Argument Parser library for C# .NET. You can use Clash in your CLI applications to parse CommandLine Arguments to C# objects.
Tools: C#, Visual Studio, git
Role: Author and Core Maintainer
Link: https://github.com/propenster/Clash

SimpleHTMLParser

Overview: SimpleHTMLParser is a simple to use, efficient, and full-featured HTML Document Parser for C#. You can parse an HTML document and retrieve any element(s) in it.
Tools: C#, Visual Studio, git
Role: Author and core maintainer
Link: https://github.com/propenster/simplehtmlparser

Veal

Overview: I'm creating my own web development framework or microframework. It is meant to be faster, simpler and much easier to run anywhere than Microsoft's ASP.NET Core. I call it a lightweight web development framework written in 100% C#.
Tools: C#, Visual Studio, git
Role: Author and core maintainer
Link: https://github.com/propenster/veal

Selenium-rs

Overview: `selenium-rs` is A rust client for the Selenium webdriver (WIP).
Tools: rust, cargo, rustfmt, git, selenium web driver.
Role: Contributor
Link: https://github.com/saresend/selenium-rs

llm-chain

Overview: `llm-chain` is a powerful rust crate for building chains in large language models allowing you to summarise text and complete complex tasks.
Tools: rust, cargo, rustfmt, git.
Role: Contributor
Link: https://github.com/sobelio/llm-chain

Faker.NET

Overview: I created and I am maintaining a NUGET package for .NET developers to generate dummy/fake data for collections.
Tools: C#, Github markdown, .NET Standard, xUnit.
Role: Author and core maintainer
Link: https://github.com/propenster/Faker.Net

Sluggify-rs

Overview: A simple slug or clean URL generator library for Rust.
Tools: Rust, Github markdown, cargo, crates.io.
Role: Author and core maintainer
Link: https://github.com/propenster/sluggify-rs

RestSharp

Overview: Simple REST and HTTP API Client for. NET.
Tools: C#, markdown.
Role: Contributor
Link: https://github.com/restsharp/RestSharp

llcc94

Overview: Writing a compiler using Rust.
Tools: rustlang, cargo, git.
Role: Contributor
Link: https://github.com/propenster/llcc94