Dylan Perks

Software Engineer

Personal Info removed from public CV. Contact
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Microsoft® MVP Most Valuable Professional

Highlights

- 3 years' professional experience with C#, C, C++
- 2 years' professional experience with Rust for Linux development
- 2 x Microsoft MVP awards
- 8+ years' public portfolio
- Embedded/low-level development
- 3300+ GitHub contributions

Skills

Rust	C#
C/C++	Python
Lua	SQLite
OpenGL	Vulkan
REST	WASM
TCP	UDP
WPF	MAUI
DevOps	CF Workers
Linux	Win32
Android	iOS
Git	Atlassian

Previous Projects

L3Harris Catapan
Layer 3 Network Encryption Device

L3Harris Corvus
Cyber & EM Activities Device

Silk.NET
Low-Level Interop & Graphics Library

Autobook TX
Appointment Scheduler App

References available upon request.

About Me A keen, driven developer with a passion for software quality and longevity, I have a natural flair for computer science having developed an advanced skillset through self-education and networking throughout the last 10 years. Contributing to some of the most well-known projects within their respective fields, I have and continued to demonstrate excellence within programming and adaptability to learn new technologies, ensuring I always bring the right toolset and skills to the task at hand.

Experience

2020-2023

Software Engineer - L3Harris Technologies (Full-Time)
ENG C (2020-2022), ENG D (2022-2023) · Tewkesbury, UK

Working in the Intelligence & Cyber International division at L3Harris – one of the top 10 military & cybersecurity contractors globally – I was responsible for writing software for electronic warfare (EW) and network security (NS) solutions for the UK government and its allies.

- Designed & developed software components for large embedded (Yocto/Linux) EW/NS systems built to high-grade security-critical standards using Rust, C#, and C++.
- Collaborated as part of a multi-discipline (software, systems, FPGA) team using GitLab, Jira, and Jenkins.
- Lead maintainer of critical Test Automation software used across NS projects in Python.
- Led the design & development of software symmetric & asymmetric key management infrastructure simulators/sidecarts implementing customer specifications for PKIX, CMS, and other VPN key packaging RFCs.
- Designed & implemented custom communication protocols for a Hardware Security Module using raw TCP, UDP, and HTTP.
- Pioneered the Rust programming language and championed the integration of Rust into the internal software ecosystem. As a result of my work, the company has moved to shift most of its cybersecurity bids to use the Rust language.
- Represented L3Harris at a notable British government organisation by delivering a presentation on side-channel analysis to both customer and competitor representatives.

2018–

Freelance & Open-Source Developer
ULTZ LIMITED (2018-2022) · .NET FOUNDATION (2022-) · INNERBLUE, LLC. (2024–) · https://github.com/Perksey

Established to drive collaborative freelance and open-source innovation, I established Ultz with a small team to create custom solutions and open-source initiatives, in which I created Silk.NET – a low-level graphics library with over 74+ contributors. This was acquired by the .NET Foundation, and continued Ultz's open-source work there. In 2024, I co-founded Innerblue for freelancing and consumer-focused applications.

- Solely designed & developed Autobook TX, an automated Texas Driver's License appointment scheduler for iOS and WebAssembly with a backend in Cloudflare Workers.
- Developed SoundPrints, a freelance project for scanning NFC tags on 3D waveforms and playing the corresponding sound, comprising an application and APIs/CRM portals written for Android and ASP.NET Core respectively.
- Successfully secured financial sponsorship for Silk.NET through JetBrains' Open-Source Power-Ups program and leveraged this partnership to further enhance the development and publicity of the project. Delivered a webinar on the .NET Foundation and JetBrains TV YouTube channels as part of this.
- Awarded the coveted Microsoft Most Valuable Professional (MVP) award in the Developer Technologies category for the outstanding technical & community leadership I provide in the open-source space. *"With just over 3,000 awardees worldwide, Microsoft MVPs represent a highly select group of experts. MVPs share a deep commitment to community and a willingness to help others. MVPs are technology's best and brightest"*.

Qualifications & Awards

- **2019** 9 x GCSEs/UK Level 2 (7-4, US GPA 3.33)
- **2022** Software Dev Level 3 (Distinction/A)
- **2022/23** 2 x Microsoft MVP Awards
- **2023** L3Harris Engineering Award

Open-Source & Media

- **2018** https://github.com/opentk/opentk
- **2019** https://github.com/dotnet/Silk.NET
- **2021** JetBrains OSS Webinar: Silk.NET
- **2023** C# + WebAssembly + OpenGL = ?