

Nathan Henderson

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EDUCATION

University of Wollongong <i>Bachelor of Computer Science, Major in Cyber Security</i>	Wollongong, NSW June 2019 – July 2024
TAFE NSW <i>Diploma of Software Development</i>	Petersham, NSW Feb. 2018 – Nov 2018

EXPERIENCE

Analyst Programmer <i>University of Wollongong (IMTS)</i>	June 2022 – Present Wollongong, NSW
<ul style="list-style-type: none">Developed customised Signout Board Calendar as a Confluence Cloud MERN plugin, with built-in Admin tools and a component based arch.Developed and maintained ASP.NET/WinForms applications for health data submission and processingMigrated manual IIS deployments to an Azure DevOps based CI/CD workflow for our on-prem test serverAdded Video playback to our static resources site, with chunked uploads, customized Video.js player and FFMPEG analysis during the upload processRefactored outdated VB data validation code in order to implement a new health datasetReverse-engineered an undocumented internal user management library to then implement a more dynamic role/privilege systemUpgraded security on our external facing WinForms apps through moving to hashed passwords and DPAPI app config encryptionUpgraded security on our ASP.NET apps through CSP implementation and porting jQuery 1 to 3 which involved several deep refactorsIntegrated email notifications with a template system through SMTP2GO's APIWorked on DevExpress reports in consultation with Clinician stakeholdersWork in a team environment using Agile lifecycle with daily stand-ups, fortnightly sprints and code reviews managed through Jira	

PROJECTS

MVNFOManager C#, Entity Framework, SQLite, Widevine, Avalonia, Git	Jan 2024 – Present
<ul style="list-style-type: none">Built cross-platform .NET desktop application (Avalonia) to manage local music video libraries with auto-generated NFO metadataIntegrated YouTube Music and Apple Music APIs with hierarchical data flows (Artist → Album → Video) and dynamic image retrievalImplemented authenticated download pipeline including Widevine DRM handling for Apple Music streamsDesigned SQLite-based persistence layer and modular UI architecture using third-party and custom components	
YTMusicNet C#, Python, Git, CodeCov, xUnit	May 2025 – Aug 2025
<ul style="list-style-type: none">Ported dynamic Python YouTube Music client to fully native, strongly-typed .NET libraryReverse-engineered unofficial API endpoints and parsed complex server-side rendered responsesReplaced untyped JSON responses with structured domain models and objectsImplemented authenticated request workflows for account-based accessAdded unit test coverage with xUnit and CI-integrated CodeCov reporting	

TECHNICAL SKILLS

Languages: C#, Python, Go, JavaScript, SQL, HTML/CSS
Frameworks: .NET/.NET Core, Express.js, DevExpress, Avalonia
Developer Tools: Visual Studio, VS Code, Rider, Git, Postman, HTTP Toolkit, Azure DevOps, Docker, CodeCov
Libraries: React, Mongoose, Newtonsoft.Json, jQuery, log4net, FFmpeg