



# JOEL FRANCIS

## Tinkerer Of Things

### WORK EXPERIENCE

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#### Heritage Carpet & Tile [IT (Helpdesk)]

May 2017–Present

Tier 2/3 support for helpdesk issues.

Worked with local MSP for hardware purchases and deployments.

Created custom PowerShell module to automate workstation deployments, used by myself and our MSP, saving a handful of hours of manual work per new user.

Led the rollout of VOIP phones for office & the technology plan for multiple relocations.

#### Australia Post [Customer Contact Agent]

September 2015 – March 2016

Inbound call-taker.

Solving customer issues or directing them to the department that can solve their issues.

Many problem-solving and customer interaction opportunities.

Some experience with Salesforce.

### EDUCATION

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#### Southern Cross University

February 2013 - August 2015

Degrees Pursued: Bachelor of Information Technology — Bachelor of Contemporary Music

Partially-completed.

Two full semesters completed of Music, one semester of Information Technology.

Learnt a LOT about music, performance, and sound engineering, and then a great deal of foundational C# and some basic CS concepts.

#### Ballina High School (NSW, Australia)

January 2008 - October 2012

Received Higher School Certificate, ATAR 86.5

Electives in Physics, Chemistry, Extension Mathematics I, Aeronautics, Information Technology.

### POWERSHELL MODULES

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#### ◆ PSKoans

An educational journey through the depths of PowerShell's language. Written in the Pester testing framework and filled with sage advice, it's a must-have for any new PowerShell user.

#### ◆ PSWordCloud

What began as a light-hearted jibe in the PowerShell chat spaces grew into a fully-fledged module capable of processing tens of thousands of lines of text and performing frequency analyses in order to create beautiful and clean word clouds in vector format.

### BIO

HELLO! I'M JOEL, AND I ENJOY SOLVING PROBLEMS. WHETHER IT BE COMPLEX PROBLEMS INVOLVING CODE, ENHANCEMENTS TO OPEN SOURCE PROJECTS, OR JUST FUN LITTLE CHALLENGES LIKE CREATING WORD CLOUDS, I'M ALWAYS GAME FOR A NEW PUZZLE.

IDEALLY I'D LOVE TO FIND A ROLE WHERE I CAN ADD A GREAT DEAL OF VALUE AS I IMPROVE MY OWN SKILLSETS AS WELL AS THOSE OF THE PEOPLE I WORK WITH. I'M LOOKING FOR A NEW OPPORTUNITY TO USE MY SKILLS, AND ADD VALUE TO YOUR ORGANIZATION!

### CONTACT

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### PROGRAMMING LANGUAGES

Powershell  
C#  
F#  
HTML/CSS  
Markdown

## OPEN SOURCE CONTRIBUTIONS

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This is a list of some of the pull requests I have directly contributed to others' projects. Work on PSKoans and PSWordCloud has been filtered out of this list.

I have also been active on the PowerShell repository assisting with issues, discussing potential solutions, and reviewing the occasional pull request.

If you enjoy reading through pages like this, you can browse [my profile](#) for more.

### PowerShell Core

- ◆ [Fix Write-Output -NoEnumerate](#)  
Fixed an issue where **Write-Output -NoEnumerate** was enumerating collections and wrapping them as **PSObject[]** arrays, rendering the switch essentially useless.
- ◆ [Fix Casts & Conversions for Numeric Strings](#)  
Fixed an issue where suffixed-numeral strings such as **1kb** were previously unable to be correctly parsed from strings, despite the PowerShell parser accepting them as bare literals.
- ◆ [Add Tests for ConfirmImpact Ratings](#)  
Added tests to ensure cmdlets were showing the proper ConfirmImpact rating when queried from within PowerShell.
- ◆ [Fix Reported ConfirmImpact when ShouldProcess is not implemented](#)  
Fixed an issue where ConfirmImpact for many compiled cmdlets was showing as **Medium** despite **SupportsShouldProcess** being **false** for that command.
- ◆ [Test-Path: Avoid Unnecessary Errors](#)  
Changed some failure states to return **\$false** instead of throwing errors, where appropriate.
- ◆ [Add Type Inference for \\$\\_ / \\$PSItem in Catch Blocks](#)  
Enables editor intellisense to provide helpful suggestions pertaining to **\$\_** and **\$PSItem** when used in catch blocks.
- ◆ [Implement Native Binary Parsing](#)  
Added support for natively parsing binary numerals using a custom binary parsing method co-designed with another community member.
- ◆ [Add Byte-type Numeric Literals](#)  
Added support for the **uy** and **y** numeric suffixes to denote byte and sbyte literals in PowerShell code.
- ◆ [C#-style Numeric Literals and Type Accelerators](#)  
Added numeric type suffixes and accelerators for basic numeric types to bring PowerShell literals more in line with C#'s numeric literal support.
- ◆ [Code Cleanup PRs \(1\) \(2\) \(3\)](#)

### PowerShell-Docs

- ◆ [Add -Scope Information for Update-Help](#)
- ◆ [Fix Get-Member -InputObject Example](#)

### SkiaSharp

- ◆ [SKRegion Improvements](#)  
Added a few extra constructors and method overloads to simplify working with SKRegions in conjunction with SKPath and SKRect objects.

### PSSysAdminToolkit

- ◆ [Refactor Get-UserProfileSize](#)
- ◆ [Refactor Get-MappedDrive](#)
- ◆ [Refactor Get-Handle](#)
- ◆ [Refactor Find-Service](#)
- ◆ [Review/Refactor Get-ComputerFromOU](#)

### Pester

- ◆ [Use Generic List<T> For Building Collections](#)

### PowerShellPracticeAndStyle

- ◆ [Update Code Layout & Formatting Guidelines](#)