

Suitware Developer

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Available to work remotely or in Cairns, Australia from 19th Feb 2018

About me

I am a cross-paradigm, performance driven. Scala/Java Software Developer who specializes in meta-programming. Wit new languages and paradigms: I can adapt to any teem. I'm becoming increasingly aware of I am currently working on Process Systems Enterprise, London, remotely from Palmerston North. New Zealand, as well as working in the scalamet time for open 2004.

Open Source

I have a passion for writing code, especially when it is consumed by a large number of users. I'm always looking for mor open source community, either on Gitter or via PR's. Ideally I would like to work completely open source and believe the open source all their libraries where it is appropriate.

Author

WIP code generation library for Scala. Built on scalameta, scalagen supports any scalameta dialect, Scala Native/Scala 2.12.4 are all supported. scalagen can completely replace all scalameta/paradise annotation macros, and *most* scala annotations.

scalameta

Maintainer

Meta-programming library for Scala. Built with the idea that Scala's language tree's should be easy to manipulate. This centerpoint for most recent developments with Scala's tooling.

scalameta paradise

Maintainer

Macro library for Scala. Now deprecated in favor of scalameta/scalagen (Annotation Macros) and scalacenter/macros (E

Elysium

Author

A collection of macros for scalameta/paradise. On hold until scalagen goes 0.1, then the entire API will be converted.

Employment

Company: Electric Memory IT (EMIT)
Contracted To: Process Systems Enterprise (PSE)
Time Employed: June 2015 - Present

Based in Palmerston North. New Zealand. Contracting out to Process Systems Enterprise, which is based in London.

I am working on the pROMS family of integrated modelling environments (IME's), designed for various engineers complex systems. The kernel is written in C++ and fortran, with the UI written in reva, pROMS is primarily a procedu that is used to run simulations/optimizations etc. Thus the IME's act much like an IDE would for a Software Developer. I such as Ell IUI Pharmaceuticals and Shell Petroleum I take the quality of code I produce very seriously.

Projects

New Language Engine (NLE)

The purpose of this project was primarily to remove a large chunk of the remaining CORBA code in our codebase. Usis and lexer, with Scala as the language of choice, we managed to build an fast, immutable, threadsafe and storage effici

Moving from Maven to Gradle

Our build system is rather complex, we have multiple "code percention" steps, multiple VM languages being used, or deflected open on extraction of the complex production o

Our users were generating models in other applications, with 2000+ models and connections between them. The Swings GUI Thread (EDT) and thus blocked the user from working while it happened. For user-generated projects greater about any tigger, they so is built of the thread of course, this time described by their owners all results of the greater about any tigger, they so is built in the course, the strip exceptable, their innerse air results of the strip of the str

Past Employment

Role: Salesman Time Employed: 2014 - 2015 Role: Butchers Assistant/Checkout Operator Time Employed: 2009 - 2013

Technical

I prefer Unix based systems for general development, usually one of NixOS. Ubuntu. Fedora or OSX.

I exclusively use git for version control. I am very competent with git and have written a number of internal scripts for it

Languages, Libraries and Skills

I have been writing Scala code since 2012, working with it in industry for the past 2 years. I consider myself a and have given talks on Scala before. Most of my open source work has been creating and/or contributing to large number of Scala libraries, but most commonly Cats, Monix, Circe and Scalameta.

lava Java was the first language I learnt. Self taught while I was at high school I have been writing Java code since 2 the codebase I work in is Java and I consider myself an advanced Java user.

use Python mostly for scripting and web scraping. I've attended multiple Kiwi Pycons and always enjoyed

Python community. Javascript Type written a lot of javascript, mostly during my time at university, I have experience ESS, ES6, Typescript and written code in AngulariS. Angular and React, using tools such as NPM, Bower, Gulo and Webkit.

A large portion of my work recently has been writing ANTLR4 Grammars, a Scala AST to go with them and ens been optimal. Due to this, I've subclassed and replaced large portions of the ANTLR code as it was non-optim much garbage for our uses. I have written multiple sets of Ansible scripts, for provisioning build machines and setting up dev environments.

Gradle Due to being in charge of the Maven => Gradle porting of our build system at work, I have become a con-

Category theory
Last year I taught myself basic category theory. I wanted to get a ground up understanding of category theory with the Cats library, I could understand the reasoning and terminology. In particular, I wanted to develop an a Monads and Natural Transformations. I still want to do far more research into this field and personally belie every Computer Science curriculum globally.

Functional Programming I believe that Functional Programming is a far too common of a phrase these days, when a lot of people me functions". Functional programming is not just about having functions representable at the type level. I use structures and try to be as pure as possible, handling effects at the type level, where it does not affect Readat

Performance. I can proudly say that I have not deliberately used the keyword "null" in my code, for well over a y

Intellij IDEA

I use Intellij every day for most development. For Java specifically, I struggle to see a reason to use anything els Go to for Web development, although I do not feel an IDE is anywhere near as useful for web dev as it is for J

My usual text editor, I use it quite a bit for web development as well.

I use Gedit for Git related work. Atom starts too slow and I have not yet spent enough time with Vim to use that

Yourkit

I would recommend Yourkit to anyone, Yourkit makes optimizing code a breeze. VisualVM I stopped using VisualVM after we purchased Yourkit. Yourkit really is far superior here

Conferences

Attending as many conferences as possible I enjoy networking and learning how the industry is evolving. I have been including Kiwi Pycon, Kiwicon X and KIŞSCon. One of my highlights was presenting a lightning talk on GitPython at Kibe attending InJunx Conference Australia in Sydney at the end of January 2018.

Community

I attend as many talks and events as possible, via Massey University, IT Professionals of New Zealand (ITPNZ) or the Pal Development Meetup Group. Once I have arrived in Cairns I will be joining IT Professionals Australia. I have also given Scala to around 30 people at the meetup group.

Education

Massey University

Qualification: Bachelor of Information Science. Computer Science Major

Status: Compulsories complete in 2015

Started working fulltime before completion currently finishing electives via part-time study.

New Plymouth Boys' High School (NPBHS)

Qualification: NCEA level 3

Status: Complete in 2011

References

Personal phone numbers of references available on request.

Duane Grimi

Relationship: Cofounder of Electric Memory IT Location: Palmerston North, New Zealand Timezone: New Zealand Standard Time (NZST - UTC+13) Email: duaneg@psenterprise.com Phone: ???

Duane is my current boss. He has worked for PSE for 14+ years. Currently heads on the NLE project. Ask Duane as about my Scala knowledge and/or involvement in NLE.

Luke Usherwood

Relationship: Cofounder of Electric Memory IT

Location: Hungary Timezone: Central European Time (CET - UTC+1) Email: lukeu@psenterprise.com Phone: ???

Luke worked for a short time in New Zealand when I first started. He has since moved back to Hungary. Ask Luke a about the flowsheeting work I have done. He also has worked on NLE and I send a lot of code reviews his way.

Andrew Bevan

Relationship: Head of Software Development, Process Systems Enterprise

Location: London, England Timezone: Greenwich Mean Time (GMT - UTC+0) Email: andrewb@psenterprise.com Phone: +44 20 8563 0888

Andrew is the Head of Software Development. If you wish to know any non-technical information about how I have wo well I work remotely, feel free to ask him.

Steven Carpenter

Relationship: Ex Manager of Dick Smith Palmerston North Location: Palmerston North. New Zealand Timezone: New Zealand Standard Time (NZST - UTC+13)

Email: Phone: ???

Steven (Steve) was my boss at Dick Smith before I started working as a Software Developer. If you would like to kn retail experience, including customer interactions, feel free to ask Steve.