MICHAEL DUNCAN

Software Developer

I am an analytic philosophy teacher and researcher starting a career in software development. I've found that programming involves many of the things I love about philosophy: learning, problem solving, creativity, logical thinking, critical discussion, clear and concise writing, careful distinctions (e.g., between an object and a pointer to an object, between a data type and its implementation. I have built applications (see examples below) to help me with my teaching, to learn, and to automate tasks.

If you have a bit of time, you might enjoy taking a look at my interactive resume instead: https://fugu137.github.io/interactive-resume/.

CONTACT

mjduncan17@outlook.com

https://github.com/fugu137

www.linkedin.com/in/mjduncan17/

+61 415 681 773

Sydney, Australia

INTERACTIVE RESUME

LANGUAGES

Java

JavaScript

CSS3

HTML5

SQL

PowerShell

FRAMEWORKS & LIBRARIES

JavaFX

Spring Boot

JUnit

PROJECTS

- **Gradebook** (gif demos available on GitHub via the link)

  My university's grade management system has various limitations and doesn't show some important statistics, so I made this fully-featured GUI application to use in my teaching instead. It allows me to import student lists, add and modify assessment weightings, view the statistics and graphs I need, undo/redo actions, and much more.

  - Java with JavaFX, SceneBuilder, JavaFX CSS, FXML.
  - MVC design + Command Pattern (for undo/redo).

- **Tutor Finder**

  A demo web application for students to find tutors. Add and remove profiles, filter by subject, load more profiles (pagination).

  - Backend: Java with Spring Boot (Apache Tomcat server, MySQL database).
  - Frontend: JavaScript, HTML, CSS.

- **DVD-rip to MKV Converter**

  I wrote this PowerShell script to batch-convert DVD-rips to .mkv files using *MakeMKV*. This saved me hours of tedious work individually converting each DVD in my collection.

EDUCATION

- Doctor of Philosophy (in Philosophy) 2011–2015
  University of Sydney

- Bachelor of Science/Bachelor of Arts
  - Honours in Psychology & Philosophy 2002–2009
  University of Sydney

EMPLOYMENT

- Philosophy Tutor/Lecturer 2014–2021
  Department of Philosophy, University of Sydney

- Postdoctoral Research Fellow 2016
  Centre for Time, University of Sydney