

## PERSONAL INFORMATION

## Angela Brett

 Vienna (Austria)

 <http://angelastic.com>

Date of birth 31/05/1980 | Nationality New Zealander, British

## WORK EXPERIENCE

Aug 2017–Present

**Software developer/owner**

Spondee e.U.

Creating iOS, macOS, and web applications of my own design, including:

- **NastyWriter**, a native iOS application written in Swift which uses natural language processing to add random insults before nouns as the user types
- **Rhyme.Science**, a rhyming dictionary website written with php, MySQL, and jQuery, using data generated by a macOS application written in Swift using natural language processing and text-to-speech technology
- Assorted other applications using the macOS text-to-speech engine for novel purposes, such as singing and finding rhymes, haiku and other poetic qualities in text, as listed on <http://spondee.software/apps>

Aug 2017–Present

**Software Developer (freelance)**

Edwards & Hardy

Completing and maintaining a mobile sales application.

- iOS frontend written in Swift using the Cocoa Touch framework
- Backend written in perl using the Dancer2 framework and accessed using a REST API
- Middleware written in JavaScript using Backbone.js with Underscore.js

1 Jun 2016–31 May 2017

**macOS developer**

Alice Interactive GmbH, Vienna (Austria)

Maintaining the pagestrip editor for macOS, a powerful authoring tool for web content.

1 Jan 2010–31 Dec 2014

**Controls Engineer**

EBG MedAustron

Marie Curie-Straße 5, A-2700 Wiener-Neustadt (Austria)

<http://medaustron.at>

- Developing a Windows C# interface to access WinCC Open Architecture, as a layer over the existing C++ API.
- Maintaining, testing and extending software developed by an external contractor
- Developing Windows C# tools to populate the database used by said software, and extract the data to create various kinds of configuration files used by different parts of the control system
- Writing requirements, design and test documentation for software

Until September 2013, this role was based at CERN in Geneva.

1 Jan 2009–31 Dec 2009

**Computing professional**

U.S. CMS EMU M&O Program

- Developing software in C++ using XDAQ on Linux to migrate configurations for the CMS EMU subdetector from XML files to an Oracle database, with a web interface to edit configurations
- Making changes to PVSS (now WinCC Open Architecture) projects to make more use of the

configuration database

This role was based at CERN in Geneva.

1 Apr 2007–31 Dec 2008

### Academic guest

ETH Zürich

Raemistrasse 101, CH-8092 Zürich (Switzerland)

<http://ethz.ch>

- Developing applications in PVSS II (now WinCC Open Architecture) for visualising the status of equipment, and for calibration

This role was based at CERN in Geneva.

1 Apr 2005–31 Mar 2007

### Marie Curie Early Stage Training Fellow

European Organization for Nuclear Research (CERN), Geneva (Switzerland)

<http://cern.ch>

- Writing the database access component for the XDAQ platform, in C++ on CERN Scientific Linux
- Writing software for PVSS II (now WinCC Open Architecture), including PL/SQL scripts to improve its interface with the Oracle database

13 Mar 2002–16 Mar 2005

### Software Developer

Software of Excellence International

106 Bush Road, 0632 Auckland (New Zealand)

<http://soeidental.com>

- Developing and writing C source code for Windows to meet specifications provided
- Discussing problems and solutions with other developers and managers as required to resolve coding issues
- Fixing bugs in source code
- Reviewing other developers' source code

## EDUCATION AND TRAINING

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10 Oct 2014–15 Sep 2016

### MA, Web Development for Linguistics

Marburg University, Marburg (Germany)

1998–2001

### Bachelor's Degree (B.Sc) in Mathematics

Massey University, Auckland

Mathematics, and some Computer Science

I also took a postgraduate course in Continuum Mechanics for interest, though this did not contribute to a qualification.

Oct 2014

### A Swift Kickstart (Swift tutorial)

NSScotland

1 Mar 2010–31 Aug 2013

### German A1, A2 and B1

Ecole-club Business, Genève (Switzerland)

Four courses at various times from 2010 to 2013.

## PERSONAL SKILLS

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Mother tongue(s) English

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C1	C1	C2
Diplôme approfondi de langue française (DALF) C1					
German	A2	B1	A2	A2	A2
Japanese	A2	A1	A1	A2	A2
B Bursary (New Zealand)					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

Communication skills

I have acquired good communication skills through my lifelong love of creative writing, including reading and reciting my writing to audiences. I attended WEA Creative Writing classes in Auckland, and the Geneva Writers' Group in Geneva, and several Geneva Writers' Conferences. I read a short story at the 13th International Conference on the Short Story in English, and regularly perform my poetry at open mic nights and other events in Vienna and elsewhere.

At CERN I worked in an international environment for eight and a half years. While there I was a member of the improv club, and also attended a course on making presentations.

Digital skills

I have experience developing for macOS, iOS, Windows, and Linux, in Swift, Perl, JavaScript, C#, PHP, C/C++, Objective-C, SQL and PL/SQL, AppleScript, and CTRL. Less recently I have used Java, VBScript, HyperTalk, FORTRAN, assembly, and BASIC. I find it easy and enjoyable to learn new programming languages, and I make an effort to understand differences in paradigms and design patterns in new languages as well as just syntax.

I attended the Apple Worldwide Developers Conference in 2004, NSScotland in 2014, Linux.conf.au in 2015, and We Are Developers in 2017 and 2018.

For my Masters thesis in Web Development for Linguistics, I created a macOS application in Swift which used the speech synthesis API to generate data for an [online rhyming dictionary](#). I am continuing to develop this when I have time. I also learnt a lot about the theory of text-to-speech as part of my Masters, and would love to do work involving this.

Since August 2017 I have been working remotely for a client and found it quite easy to manage my time and be productive outside of an office environment.