

William Vigolo da Silva

Software developer

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🐙 [GitHub](#) [LinkedIn](#)

📁 Work Experience

Feral Interactive

Jun 2018 – Aug 2019

Game Programmer (Student Placement)

As a developer at Feral I worked on bringing more games to **macOS** and **iOS**, including [Total War: Shogun 2](#), [Tropico](#), and [Company of Heroes](#).

By working on several large codebases I've gained the ability to jump into new projects and rapidly understand them; a skill that allows me to quickly start fixing bugs and implement new features.

Using **C++** throughout my placement has earned me an in-depth understanding of it, which I've used to solve problems effectively on top of fixing issues such as cross-platform bugs and undefined behaviour.

I've learnt how to use **Xcode** to develop for Apple platforms, and used **LLDB** extensively to debug large applications and fix obscure bugs.

🎓 Education

University of Nottingham

Sep 2016 – Present

BSc Hons Computer Science with Year in Industry

Expected graduation: Summer 2020 **Year averages:** 1st: 88%, 2nd: 80.25%

Dissertation project: Mining and analysing public government data of investment into research & innovation, applying some network and data analysis techniques to explore relationships and collect statistics.

Some exam results I'm proud of:

Programming Paradigms • 99% As an introduction to the object-oriented and functional programming paradigms, I used Java to make a simple card-matching game, and Haskell to make simple but expressive programs

Programming & Algorithms • 94% I learnt the usage of pointers and manual memory management through learning C, as well as a variety of data structures and algorithms

{ } Projects

Microlator – C++ (17), CMake

A C++ emulator library for the 6502 microprocessor, aiming to make the best use of modern C++ and best practices. (Work in progress).

Organisations – Lua, MySQL

An addon for the game Garry's Mod. It allows players to create, join, and manage groups within a game server. Players can set a bulletin, manage their members and the group's bank account.

A business site – PHP, JavaScript, HTML5, CSS

I created a minimal website that a business could use to provide contact information and show off their services, supporting content in multiple languages.

PHP was used for routing and translating the website's content. An adaptive CSS stylesheet makes the website usable on both desktop and mobile devices. Page transitions are performed through AJAX requests.

✂ Other interests

In my spare time I also enjoy archery, baking, and fiddling with open-source software. Some of my open-source contributions can be found on my GitHub profile.

My personal computers and server run a distribution of GNU/Linux, so I've a good understanding of how to install, use, and maintain such systems.

I've completed some exercises on [Root Me](#) to test my knowledge of computer security and learn more about it.

🤝 Volunteer work

CoderDojo

Nov 2018

★ Skills

Software development

With C++, C, Java, Python, PHP, JavaScript, Haskell

Version control

Using Git, with GitHub and GitLab

Using SVN

Web frontend

With HTML(5), CSS

Experience with Vue.js

Platforms

Windows, GNU/Linux, macOS, iOS

Databases

Using SQL, with MySQL and PostgreSQL

Volunteer

I worked with CoderDojo at an event that introduced young people to technology and software development.

I supported attendees who learned about programming with Scratch and the BBC micro:bit, as well as web design using HTML & CSS.

The London Oratory School

Dec 2015 – Jun 2016

Club Coordinator

Throughout the school year, I helped run a weekly Programming Club with about 30 attendees, aged 13–17.

I organised programming challenges for attendees to complete, and set up Raspberry Pis for attendees to tinker with.

During the club, I taught the basics of programming & algorithms, helping attendees with the challenges and activities.

Communication skills: Teaching attendees improved my ability to communicate clearly and concisely

Teamwork: I and the other club organisers regularly collaborated to prepare activities & challenges and advertise the club

Organisation: Planning and organising activities developed my ability to manage my time, as I worked around my studies to help keep the club running

Cancer Research UK

Jan 2014 – Jun 2014

Volunteer

I worked weekends at a local Cancer Research UK retail shop with other volunteers. I performed several roles, including working at the till, organising the store, and managing stock.

Communication skills: Working at the till boosted my communication and people skills while ensuring that customers had a good experience with the charity

Teamwork & organisation: Working with other volunteers strengthened my team-working, as we shared multiple roles and performed different jobs, working together to meet sales goals