MICHAEL WALL

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SUMMARY

I am a software developer who has just completed his final year of study at Dublin City University. I am passionate about technology and I learn new skills with speed and relative ease. I consider myself to be intuitive, creative and focused. I am always excited to extend the boundaries of my knowledge, and strive to work with like-minded individuals. My hobbies include making art, writing music and tweaking Linux.

EXPERIENCE

2 June 2015 – May 2017

Vocational Intern, *SAP SSC (Ireland) Ltd*

· I am part of the first 20 students to be selected for this innovative Cooperative Learning program. I have had two major roles during my time at SAP

· SAP HANA Support Engineer: Problem solving application and database issues in SAP HANA; resolving customer problems; creation of Knowledge Base Articles for the use of my team.

· Software Engineer, Business Intelligence R&D: Working in an agile team using adapted scrum methodologies; new feature development in Java; bug fixing and problem solving; test automation; collaboration with QAs and other developers.

22 Sep 2014 – 29 May 2015

Lab Tutor, *Dublin City University*

· I was responsible for teaching 12 -15 students (varied by semester) advanced programming concepts to first year students in Java. I tutored for 4 hours a week in semester I and 2 hours a week in semester II. This role is only offered to the top 20 students in the year.

July 2012 – April 2016

Coding Mentor, *CoderDojo*

· I volunteered to teach young coders basics in HTML and CSS, and elementary programming concepts with Java. I started there myself as a student, and progressed to mentor a group of 20 – 30 children together with 5 other dojo leaders. They developed their own personal websites and basic games with Python.

2012 – Present

Projects and programming, *github.com/thewalla07*

· Blockchain E-Voting: I wrote my own implementation of a blockchain structure and the Paillier cryptosystem to tackle some of the issues of voter anonymity and ballot tampering. (Final year project, Golang)

· Massively Distributed File System: Is a CLI program which provides access to a cloud storage like system. Files distribution is handled by a metadata service. Data can be stored securely for users over potentially insecure storage nodes. (Third year project)

· Linux-foo: Is a set of scripts and programs I have written to make my Linux life easier.

· I participated in the Openet Decode programming competition in 2016, and in the Google HashCode competition in 2016 and 2017.

TECHNICAL SKILLS

Languages

· Working knowledge: Golang (preferred), Java, Shell scripting

· Basic knowledge: C++, Prolog, Haskell, HTML5, CSS, MySQL, Python, R, MIPS, Android

Interests

· Blockchain databases, Cryptography, DevOps, Artificial Intelligence, Machine Learning

Technologies

· Git, TravisCI, Waffle

Software

· Extensive time spent working in Arch Linux (preferred), ChromeOS (with chroot jail for Linux) and Windows environments

· Experience with SAP HANA software; I have completed HANATEC142 and am one of the first students in the EU to certify in HANA

EDUCATION

Sep 2013 – May 2017	**BSc. Computer Applications,** *Dublin City University, Glasnevin, Dublin 9*

I am currently on track to earning a First Class Honours in my degree. Below is an excerpt for each year and a link to the digital transcript of results.

1st year: https://goo.gl/a883a1

   Computer Programming I   - 97

   Computer Programming II   - 88

2nd year: https://goo.gl/YNwxXc

   OO Design and Implementation - 78

   Data Structures and Algorithms - 83

   Logic   - 77

3rd year: https://goo.gl/H3Xpl2

   IT Architecture (IBM)   - 80

   3rd Year Project   - 76

2007 – 2013	**Leaving Certificate (505 Points),** *Coláiste Éamann Rís, Callan, Kilkenny*

My choice modules for Leaving Cert included:

   Physics and Chemistry (joint) - B1

   Art   - B1

   Economics   - B3

   French   - B3

All of my subjects were taken at Higher Level. I also taught myself Applied Mathematics in my own time in the second half of 6th year as I wanted to have more science education; It was not a subject taught in my school at the time.