

Curriculum Vitae

Michael Gorven

October 9, 2011

1 Employment

August 2008 – present Nimbula Development Centre, Cape Town

Software Engineer on Nimbula's primary product, Nimbula Director. Longest serving employee involved since the product's inception, with broad experience of the product.

Duties Designing new features; implementing features; testing; design and code reviews; maintaining existing features; developing internal tools and build system; testing infrastructure; release engineering; technical interviewing; customer support; office infrastructure administration.

Projects Compute stack; image storage and management; CentOS packaging and build system; image building/bundling tool; failure test automation; API documentation generator.

Technologies Python, Twisted, Bash, CentOS, Ubuntu, Debian, RPM, HTTP, REST, JSON, KVM, HDFS, ZooKeeper, Puppet

2 Work Experience

Vacations 2004 – 2008 Conlog, Durban

In service training during vacations: December 2004 – January 2005, July 2005, July 2006, December 2006 – January 2007, July 2007, January 2008

Duties Embedded system programming.

Projects Microcontroller spread spectrum transmitter and receiver; electricity meter monitoring device with SMS and email interfaces.

Technologies C, Java J2ME, Atmel ARM, Siemens TC65

2005 – 2006 University of Cape Town

Tutor in Computer Science Department

Duties Supervising and providing assistance during tutorial sessions; marking; developing tutorial material.

3 Open Source

2008 – 2010 Ibid: multi-protocol general purpose chat bot

<https://launchpad.net/ibid>

Core developer and initial designer.

Technologies Python, Twisted, IRC, Jabber, SMTP, HTTP

2008 GRUB2: boot loader

<http://michael.gorven.za.net/bzr/grub/luks3>

Implemented support for LUKS encrypted partitions (not yet integrated).

Technologies C, LUKS, block ciphers

2009 Lighttpd: web server

<http://michael.gorven.za.net/blog/2009/04/13/content-negotiation-lighttpd-lua>

Implemented media type content negotiation.

Technologies Lua, HTTP

2008 – 2011 Mobile website

<http://m.mene.za.net/> <http://michael.gorven.za.net/darcs/mobile>

Implemented a website of tools for use on mobile phones. Consists of an interface for sending SMSes via Vodacom's website, and looking up flight information for South African airports.

Technologies Python, web.py, XHTML

4 Qualifications

- Bachelor of Science (Engineering) Electrical and Computer Engineering (2007)
University of Cape Town
- Matric Senior Certificate (2003)
Kwa-Zulu Natal Department of Education and Culture

5 University Results

University results can be accessed online at <http://publicaccess.uct.ac.za/>, campus ID: GRVMIC003.

6 Education

2008 University of Cape Town

MSc(Eng) Electrical Engineering (withdrawn)

2004 – 2007 University of Cape Town

BSc(Eng) Electrical & Computer Engineering

1999 – 2003 Westville Boys' High School

7 University Achievements

- Entrance Scholarship: 2004 – 2006
- Dean's Merit List: 2004, 2005, 2006
- Electrical & Computer Engineering Class Medal: 2005, 2006, 2007
- Class medals for CSC115F, CSC116S, MAM103W, PHY110W and CSC201F
- Cape Town Corporation Third Year Silver Medal (Top 3rd year student in Engineering and the Built Environment Faculty)
- Cape Town Corporation Silver Gilt Medal (Top 4th year student in Electrical Engineering Department)
- Siemens Prize (Best final year thesis in Electrical Engineering)

8 School Achievements

- Placed 7th in Kwa-Zulu Natal on final Matric results
- Dux of Westville Boys' High School
- Prefect and Mentor at Westville Boys' High School

9 Interests

- Music: Piano (Grade 5), Theory (Grade 5), Guitar, Choir
- Church Activities and Service
- Computers and Electronics
- Open Source Software

10 Personal Details

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Twitter: @mgorven
Launchpad: <https://launchpad.net/~mgorven>