

# 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 3<sup>rd</sup> year student in Engineering and the Built Environment Faculty)
- Cape Town Corporation Silver Gilt Medal (Top 4<sup>th</sup> year student in Electrical Engineering Department)
- Siemens Prize (Best final year thesis in Electrical Engineering)

## 8 School Achievements

- Placed 7<sup>th</sup> 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

Email: michael at gorven dot za dot net  
Website: <http://michael.gorven.za.net/>  
Linked In: <http://www.linkedin.com/in/mgorven>  
Twitter: @mgorven  
Launchpad: <https://launchpad.net/~mgorven>