

# Kieren Davies

## Curriculum Vitæ

🏠 12 Kronenzicht Villas, Brunia Way,  
Hout Bay, 7806, South Africa  
☎ +27 78 988 4864  
✉ kieren@kierendavies.co.za  
🌐 <http://www.kierendavies.co.za/>

### SKILLS

Extensive Python, Java

Moderate C++, C#, Ruby, SQL,  $\text{\LaTeX}$   
Android, Git, Mercurial

Basic Bash, Octave

### EDUCATION

2009 – 2010 **International Baccalaureate**  
*International School of Hout Bay*

2011 – PRESENT **Bachelor of Science**  
MATHEMATICS & COMPUTER SCIENCE  
*University of Cape Town*

### WORK EXPERIENCE

**Intern at SKA AFRICA** DEC 2010 – FEB 2011  
*Scientific data processing*

Examined data from the KAT7 radio telescope with SciPy and Matplotlib to search for unusual phenomena.

**Intern at PRAEKELT FOUNDATION** JUL 2011  
*Machine learning*

Developed a Bayesian user content filter for use with a Django web portal, *Young Africa Live*.

**Intern at RIGHTSHIFT** SEP 2011  
*Algorithmic analysis*

Statistically optimised the behaviour of an online slot machine.

**Intern at TEACH ME 2** DEC 2011 – FEB 2012  
*Web application development*

Developed a standalone Ruby on Rails web application for automated templating and PDF generation.

**Intern at KRIT** JUN 2012 – JUL 2012  
*Web application development*

Developed utilities for keyword extraction from user reviews, and maintained a .NET MVC application.

### AWARDS

2005 *Primary Mathematics World Contest*  
**South African team member**

2006 – 2010 *UCT Mathematics Competition*  
**Gold award**

2006 *Eskom Science Expo*  
**Silver medal**

2008 **Gold medal**

2009 *South African Computer Olympiad*  
**Finalist**

2010 **Silver medal**

2011 *International Olympiad in Informatics*  
**South African team member**

### COMMUNITY INVOLVEMENT

**UCT Algorithm Circle** 2009 – PRESENT  
*Lecturer, contest manager, deputy chair*

Student society aimed at spreading interest and knowledge of advanced computer science, with weekly classes on various topics.

**Umonya** 2011 – PRESENT  
*Tutor, lecturer*

Non-profit organisation which runs courses on Python programming for high school students.

**SA Computer Olympiad** 2011 – PRESENT  
*Scientific committee, IOI delegation*

Committee which sets problems and manages all technical aspects of the contest. Coach and deputy team leader for the International Olympiad in Informatics.

**The Shuttleworth Lab** 2012 – PRESENT  
*Committee member, administrator*

Open source computer laboratory at the University of Cape Town.

### OTHER INTERESTS

**Music** Fan of all music from baroque to dubstep. Played saxophone in a jazz band and drums in a rock band.

**Sport** Regular paintballer and rock climber. Opened several climbing routes in popular areas.