

# Kieren Davies | Curriculum Vitæ

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## Education

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### International School of Hout Bay

*IGCSE, International Certificate of Education with Distinction* 2007–2008

Highest mark in South Africa for Mathematics

Highest mark in South Africa for Physics

Highest mark in South Africa for Information Technology

*International Baccalaureate, 35 points* 2009–2010

Highest Achievement in Mathematics

Highest Achievement in Physics

### University of Cape Town

*B.Sc. Mathematics and Computer Science (expected)* 2011–2014

Dean's merit list

## Work Experience

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### SKA Africa

Cape Town

*Science processing intern*

Dec 2010–Feb 2011

Analysed data from the KAT7 radio telescope to search for unusual phenomena.

### Praekelt Foundation

Cape Town

*Software developer intern*

Jul 2011

Implemented a Bayesian filter for user content, to be integrated with mobile web portal *Young Africa Live*.

### RightShift

Cape Town

*Software developer intern*

Sep 2011

Optimised the stochastic behaviour of online casino games.

### Teach Me 2

Cape Town

*Software developer intern*

Dec 2011–Feb 2012

Developed a stand-alone web application offering templated PDF generation.

### Krit

Cape Town

*Software developer intern*

Jun 2012–Jul 2012

Developed utilities for keyword extraction from user-written reviews.

### Facebook

Menlo Park, California

*Software engineer intern*

Dec 2012–Feb 2013

Developed internal tools for Hadoop Distributed File System.

### Amazon

Cape Town

*Software development engineer intern*

Jun 2013–Jul 2013

Integrated internal tools into a web frontend.

*Software development engineer intern*

Nov 2013–Feb 2014

Developed a framework and automated service for metric aggregation and reporting.

## Achievements

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<b>Primary Mathematics World Contest</b> <i>South African team</i>	<b>Hong Kong</b> 2005
<b>UCT Mathematics Olympiad</b> <i>Gold award</i>	2006–2010
<b>Interprovincial Mathematics Olympiad</b> <i>Western Cape team</i>	2006–2009
<b>South African Mathematics Olympiad</b> <i>Finalist</i>	2007–2010
<b>Eskom Science Expo</b> <i>Silver medal</i>	2006
<i>Gold medal</i>	2008
<b>South African Computer Olympiad</b> <i>Finalist</i>	2009
<i>Silver medal</i>	2010
<b>International Olympiad in Informatics</b> <i>South African team</i>	<b>Pattaya, Thailand</b> 2011
<b>ACM International Collegiate Programming Contest</b> <i>World finalist</i>	<b>Yekaterinburg, Russia</b> 2014

## Community Involvement

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<b>UCT Algorithm Circle</b> <i>Deputy chair, volunteer lecturer</i> Student society aimed at spreading interest and knowledge of advanced computer science, with weekly classes on various topics.	2009–2013
<b>The Shuttleworth Lab</b> <i>Committee member, administrator</i>	2012
<b>Umonya</b> <i>Volunteer</i> Non-profit organisation which hosts free courses on Python programming for high school students.	2011–2013
<b>South African Computer Olympiad</b> <i>Scientific committee</i> Setting problems and managing all technical aspects of the contest.	2011–2012
<b>International Olympiad in Informatics</b> <i>Deputy team leader</i>	<b>Montichiari, Italy</b> 2012