Kieren Davies | Curriculum Vitæ

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Available online at https://github.com/kierendavies/cv

Education

International School of Hout Bay

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

International Baccalaureate, 35 points *2009–2010*

University of Cape Town

B.Sc. Mathematics and Computer Science *2011–2014*
Dean's merit list

B.Sc. (Hons.) Computer Science *2016 (expected)*
Thesis topic: test-driven development for ontology engineering

Work Experience

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 Distibuted File System.

Oracle **Cape Town**
Software developer intern *Jun 2014–Jul 2014*
Developed a Vagrant plugin to use Oracle Cloud as a virtualization provider.

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.

Software development engineer intern *Nov 2014–Aug 2015*
Developed and maintained numerous internal operational tools.

Jumo
Data science intern *Oct 2015–Jan 2016*
Assisted with infrastructure and data storage. Designed and developed internal microservices and APIs.

Achievements

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

Community Involvement

UCT Algorithm Circle
Deputy chair, volunteer lecturer — *2009–2013*
Student society aimed at spreading interest and knowledge of advanced computer science, with weekly classes on various topics.

The Shuttleworth Lab
Committee member, administrator — *2012*

Umonya
Volunteer — *2011–2013*
Non-profit organisation which hosts free courses on Python programming for high school students.

South African Computer Olympiad
Scientific committee — *2011–2012*
Setting problems and managing all technical aspects of the contest.

International Olympiad in Informatics — **Montichiari, Italy**
Deputy team leader — *2012*

Skills

Programming languages..

Proficient	Competent	Basic
• Ruby	• Bash	• Haskell
• Python	• C	• Mathematica
• Java	• C++	• Octave
	• C#	• R
	• Clojure	• Scala
	• CoffeeScript	• Scheme
	• HTML/CSS	
	• JavaScript	
	• LaTeX	
	• SQL	

Frameworks..

Proficient	Competent	Basic
• Ruby on Rails	• Android	• Compojure
• RSpec	• Bootstrap	• JUnit
	• Django	• Twisted
	• jQuery	
	• Sinatra	

Tools and other..

Proficient	Competent	Basic
• Bash/Zsh	• Atom	• Apache
• Git	• Leiningen	• Boot
• GNU/Unix utilities	• Make	• Flex/Bison
	• MySQL	• GDB
	• Redis	• Maven
	• Vagrant	• Nginx
	• Vim	• Puppet
		• PostgreSQL
		• Protégé
		• Rake
		• SBT