

Kieren Davies | Curriculum Vitæ

Amsterdam – Netherlands

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

Education

International School of Hout Bay <i>International Baccalaureate, 35 points</i>	South Africa 2009–2010
University of Cape Town <i>B.Sc. Mathematics and Computer Science</i> Including courses in applied mathematics, statistics, and physics. Dean's merit list. <i>B.Sc. (Hons.) Computer Science</i> Thesis: <i>Towards Test-Driven Development of Ontologies: An Analysis of Testing Algorithms.</i>	South Africa 2011–2014 2016

Work Experience

Facebook <i>Software engineer intern</i> Developed internal tools for Hadoop Distributed File System.	California, USA Dec 2012–Feb 2013
Oracle <i>Software developer intern</i> Developed a Vagrant plugin to use Oracle Cloud as a virtualization provider.	South Africa Jun 2014–Jul 2014
Amazon <i>Software development engineer intern</i> Integrated internal tools into a web frontend. <i>Software development engineer intern</i> Developed a framework and automated service for metric aggregation and reporting. <i>Software development engineer intern</i> Developed and maintained numerous internal operational tools.	South Africa Jun 2013–Jul 2013 Nov 2013–Feb 2014 Nov 2014–Aug 2015
Jumo <i>Data science intern</i> Assisted with infrastructure and data storage. Designed and developed internal microservices and APIs.	South Africa Oct 2015–Jan 2016
Booking.com <i>Software developer</i> Currently on SEO Infra team, working on tooling, big data processing, and statistical analysis to enable product experimentation on search engine traffic and conversion. Previously worked on test automation and product localisation.	Netherlands Jan 2017–present

Publications

K. Davies, "Towards test-driven development of ontologies: An analysis of testing algorithms," tech. rep., University of Cape Town, 2016.

K. Davies, C. M. Keet, and A. Ławrynowicz, "TDDonto2: A test-driven development plugin for arbitrary TBox and ABox axioms," in *The Semantic Web: ESWC 2017 Satellite Events*, vol. 10577 of *Lecture Notes in Computer Science*, pp. 120–125, Springer, 2017.

K. Davies, C. M. Keet, and A. Ławrynowicz, "More effective ontology authoring with test-driven development and the TDDonto2 tool," *International Journal on Artificial Intelligence Tools*, vol. 28, no. 07, p. 1950023, 2019.

Achievements

Primary Mathematics World Contest <i>South African team</i>	Hong Kong 2005
UCT Mathematics Olympiad <i>Gold award</i>	South Africa 2006–2010
Interprovincial Mathematics Olympiad <i>Western Cape team</i>	South Africa 2006–2009
South African Mathematics Olympiad <i>Finalist</i>	South Africa 2007–2010
Eskom Science Expo <i>Silver medal</i>	South Africa 2006
<i>Gold medal</i>	2008
South African Computer Olympiad <i>Finalist</i>	South Africa 2009
<i>Silver medal</i>	2010
International Olympiad in Informatics <i>South African team</i>	Thailand 2011
ACM International Collegiate Programming Contest <i>World finalist</i>	Russia 2014
ACM International Collegiate Programming Contest <i>World finalist</i>	South Dakota, USA 2017

Community Involvement

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

