

Kieren Davies | Curriculum Vitæ

Amsterdam – Netherlands

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

Education

University of Cape Town

South Africa

B.Sc. Mathematics and Computer Science

2011–2014

Including courses in applied mathematics, statistics, and physics. Dean's merit list.

B.Sc. (Hons.) Computer Science

2016

Thesis: *Towards Test-Driven Development of Ontologies: An Analysis of Testing Algorithms.*

Selected work experience

Independent View

Netherlands

Senior quantitative developer

Jan 2019–Feb 2020

Maintained and extended an automated futures trading and reporting system.

Booking.com

Netherlands

Software developer

Jan 2017–Jan 2019

Localisation: adapted parts of the website for specific markets.

SEO Infrastructure: worked on tooling, big data processing, and statistical analysis to enable product experimentation on search engine traffic and conversion.

Cloud Infrastructure: created an orchestration layer for managing Google cloud services as Kubernetes components.

Amazon Web Services

South Africa

Software development engineer intern

Nov 2014–Aug 2015

Developed and maintained numerous internal operational tools.

Oracle

South Africa

Software developer intern

Jun 2014–Jul 2014

Developed a Vagrant plugin to use Oracle Cloud as a virtualization provider.

Facebook

California, US

Software engineer intern

Dec 2012–Feb 2013

Developed internal tools for Hadoop Distributed File System.

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

South African Computer Olympiad <i>Silver medal</i>	South Africa 2010
International Olympiad in Informatics <i>Contestant</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, US 2017