

IVAN DU TOIT

SOFTWARE DEVELOPMENT ENGINEER

ABOUT

Ivan du Toit is an eager learner willing to do any task that delivers the most value to the business, large or small. He has a record of keeping track of complex domains while leading high performance teams at companies like Amazon Web Services

WORK EXPERIENCE

Amazon

September 2016 - Present

Amazon Web Services (Software Development Engineer II)

I am the team lead for the team that builds the EC2 (<https://console.aws.amazon.com/ec2/home>) management console. My focus is on increasing operational excellence and increasing our delivery velocity. This includes training new team members and driving the development of a DSL and framework to allow us to delivery more value to out customers, faster.

Highlights

- ◀ Driving and getting projects delivered across teams
- ◀ Steering and delivering a platform for increase delivery in multiple team
- ◀ Increased normalized project delivery by 50% YoY for 2 years while the team only grew 10%

CONTACT



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<https://tryfinally.co.za>



LinkedIn

Ivan-du-toit



GitHub

Ivan-du-toit

EDUCATION

2011
2013

University of Pretoria

🎓 BSc

Computer Science

Courses

- ◀ COS314 - Artificial intelligence
- ◀ OBS114 - Business management
- ◀ OBS124 - Business management
- ◀ WTW114 - Calculus
- ◀ WTW128 - Calculus
- ◀ ERA284 - Computer architecture
- ◀ COS226 - Concurrent systems
- ◀ COS212 - Data structures and algorithms
- ◀ WTW115 - Discrete structures

Amazon

April 2014 - August 2016

Amazon (Software Development Engineer)

I worked in the User Experience team to build the EC2 (<https://console.aws.amazon.com/ec2/home>) and VPC (console.aws.amazon.com/vpc/home) management consoles. To increase my exposure I am also involved in EC2 API design. Giving back is also important to me by helping newbies in operational excellence 101 training along with mentoring and helping interns

Highlights

- ◀ Reducing my teams operation incidents and load by 20% by driving good operational practice
- ◀ Training all new on-calls to prepare for their first rotation
- ◀ Initiating and delivering two big customer asks without impacting the teams roadmap

Amazon

December 2013 - March 2014

(Software Development Engineer - Intern)

I worked in the User Experience team to build a UI testing framework based on CasperJS and PhantomJS.

Highlights

- ◀ Learned a lot about testing and the impact of good testing on velocity
- ◀ The framework and design is the bases of the testing used 3 years later

University of Pretoria (Teaching Assistant)

February 2012 - December 2012

Teaching Assistant

I helped students in the COS 151 and COS 110 modules to understand programming practice and complete the course work successfully.

- ◀ WTW285 - Discrete structures 2
- ◀ PHY171 - First course in physics
- ◀ COS132 - Imperative programming
- ◀ INF214 - Informatics
- ◀ INL240 - Information science
- ◀ COS151 - Introduction to computer Science
- ◀ WTW126 - Linear Algebra
- ◀ WTW152 - Mathematical modelling
- ◀ COS216 - Netcentric computer systems
- ◀ COS110 - Program design: Introduction
- ◀ COS222 - Operating systems
- ◀ STK110 + STK120 - Statistics
- ◀ COS121 - Software modelling and design patterns

2011 Online Courses

Present

Courses

- ◀ CS258 - Software Testing(Udacity.com)
- ◀ Introduction to Artificial Intelligence at ai-class.com
- ◀ Learning how to learn (Coursera)
- ◀ Machine Learning by Andrew Ng (Coursera)

Alfega Technologies

June 2008 – January 2011

Programmer

Web applications development and testing including creating a custom content management system. Lead development on the CMS during the last year.

Highlights

- ◀ Built custom CMS solution

🏆 AWARDS

2012

Golden Key International Honour Society

🏆 Golden Key International Invitation

Recieved an invitation to join the socieity due to academic performance during the course of my studies.

2009

🏆 U/20 SA Fencing colours

Recieved South African colours for U/20 Fencing

2009

🏆 U/20 National Fencing Champion

Won the South African U/20 nationals

2006

FIRST Robitics League South Africa

🏆 FIRST Robitics League Best Programmer

Lead a team to participate in the FIRST Robotics League as part of a community outreach and enrichment program. Won the "Best Programmer" award at the FIRST Robitics League national finals in 2006.

Web Development

Master

HTML

CSS

Javascript

GWT

AngularJs

Stateless backend development

Master

Java

Spring

Devops

Master

AWS

Cloud

Infrastructure as code



LANGUAGES

◀ Afrikaans

Native speaker

◀ English

Native speaker



INTERESTS

Fencing