

## PERSONAL INFORMATION

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## EDUCATION

### University of Cape Town (2015)

BSc Honours in Computer Science. Thesis on “Accelerating the Noise Reduction Process for Astronomical Source Finding”. Using GPUs to give an order of magnitude performance improvement of noise reduction on radio astronomy observations on the  $H_1$  spectrum.

### University of Cape Town (2012 - 2014)

BSc majoring in Computer Science and Mathematics.

## WORK

### Google (2017 May - present)

SRE on Google Kubernetes Engine.

### HyraxBio (2016 December - 2017 April)

Work on HIV drug resistance testing and diagnostic tools. Implemented high-performance filtering of genomic sequences.

### JUMO World (full-time software engineer) (2016 June - 2016 November)

Implementation and maintenance of core financial and accounting systems supporting loan and savings products.

### Facebook (internship) (2014 December - 2015 February)

Worked on load testing framework and monitoring for Facebook infrastructure. Full time offer received at completion of internship.

### Facebook (internship) (2013 December - 2014 February)

Worked on Places and Pages reviews for the Facebook Android app as well as the corresponding backend services. Full time offer received at completion of internship.

### SnapBill (part-time work) (2013 July - 2013 November and 2014 March - 2014 September)

Developer at SnapBill. My job functions included implementing custom solutions for clients, ensuring high availability of the entire service, maintaining the core product and implementing any new functionality.

### 2go Interactive (internship) (2012 - 2013 December vacation)

2go was the biggest mobile social network in Nigeria. I worked on the Friendura app for Android. This was very challenging due to the massive scope. The biggest lesson I took away from 2go was the importance of upfront design. I was burnt by this

### SnapBill (internship) (2011 December vacation - mid 2012)

I started at SnapBill as a December vacation intern working on a number of SnapBill sub-systems including search and analytics. At the end of my internship I was offered a part-time position while studying.

## OPEN SOURCE CONTRIBUTIONS

**HyperLog Log database** Extended a hyperlog log database to do efficient time range queries.

## COMPUTER SKILLS

**Programming, Scripting and Markup Languages** Python, C++ / C, Java, Rust and PHP  
**Other Technologies** CUDA, Android

## COMPETITIONS

**International Collegiate Programming Contest (2014)** Took part in the ICPC world finals in Morocco. Placed second in the region.

**International Collegiate Programming Contest (2013)** Took part in the ICPC world finals in Russia.

**International Collegiate Programming Contest (2012)** Placed second out of all South African teams.

**Standard Bank IT Challenge** (2012) Won R150 000 for UCT and laptops for myself and the rest of the team.

**Stripe** (2012) Successfully complete the Stripe (a credit card processing company in the USA) CTF challenge. It's a web security challenge that requires you to find vulnerabilities in a given web app.

**South African Computer Olympiad** (2011) Bronze medalist with Python prize.

**International Olympiad in Informatics** (Thailand, 2011) An individual algorithms based competition for High School students. One of four selected to represent South Africa.

**Standard Bank IT Challenge** (2011, 2010) Entered as part of an unofficial team as we didn't fit the entry requirements (we needed to be part of a university). We came first, beating all the University teams in the process.

**South African Computer Olympiad** (2010) Made it through to the 3rd round (top 16).

**MXit programming competition** (2008) Programming competition where we had to design a new and innovative MXit client. Some of the entries were from IT professionals. Despite the tough competition I made it to the top 5.

## REFERENCES

Available on request