

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 improve the performance of noise reduction.

University of Cape Town (2012 - 2014)

BSc in Computer Science and Mathematics.

WORK AND INTERNSHIPS

Facebook (2013 December - 2014 February)

Internship working on the Facebook Android app as well as backend services required.

SnapBill (2013 July - 2013 November and 2014 March - 2014 September)

Developer at SnapBill. My job functions include implementing custom solutions for clients, ensuring high availability of the entire service, fixing any bugs that we are aware of in the core product and implementing any new functionality. In addition to this I concurrently develop the mobile app that interfaces with the core product’s API.

MyNames (2013 June, July)

Contracted to build an interface that provides co.za domain registration and management. Directly interfaces with Za Central Registries EPP Provisioning server. Written from scratch to be elastically scaled on Amazon’s AWS platform. Written in Python with Twisted.

2go Interactive (2012 - 2013 December vacation)

2go is 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 designing before starting on a project. I was burnt by this mistake and had this nailed into me constantly.

SnapBill (2011 December vacation - mid 2012)

I started at SnapBill as a December vacation intern working on a number of SnapBill sub-systems. At the end of my internship I was offered a part-time position while studying at UCT. Because SnapBill had such a small development team I had to learn the entire stack used by SnapBill. I learned how to use many interesting tools and products like node.js, Redis, Puppet and Continuous Integration systems. Besides learning interesting technologies I also had to consider the entire application lifecycle.

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