

Brandon Talbot

Curriculum Vitæ

2408-1239 Georgia St. West
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Canada

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people.cs.uct.ac.za/~btalbot



Experience

Full Time

2017–2019 **Software Development Engineer II,**
Amazon, Supply Chain Optimization Technologies, Inventory Mapping.
SDEII at Amazon Retail.

Project

o Inventory Mapping

(28 August 2017 - Present)

Backend service development for the Amazon retail website and item fulfillment infrastructure. During my time in the Inventory Mapping team I decreased system data caching time from 15 minutes to less than 7 minutes for partial updates and from 36 hours to less than 15 hours for a full data refresh. I assisted in re-writing and designing a new system to migrate off of SQL with Oracle to Amazons no-SQL DynamoDB database. This process included designing precomputational systems and uniqueness enforcement with DynamoDB transactionality within the no-SQL database, DynamoDB, which ensures data quility and speed of the services responses.

This re-write included a change of language from Java to kotlin, during which time I designed and implemented Logging, Metrics and Caching libraries in Kotlin, which is now used by multiple internal Amazon teams.

Technologies:

- Java
- Kotlin
- ANT & Gradle
- DynamoDB
- Oracle SQL
- Big Data
- Precomputation

2014–2017 **Intermediate Software Engineer,**

Entelect.

Software development consultant for Entelect.

Project

○ **Standard Bank**

(09 February 2016 - Present)

Android application developer. Added features and maintained the Standard Bank mobile banking application. I upgraded the analytics collection system using annotations speeding up development as well as upgraded the build system to Gradle speeding up build times, from 2-5 mins down to 10-20 seconds.

Technologies:

- Android
- Java
- Maven and Gradle

○ **Seecrypt**

(26 October 2014 - 09 February 2016)

Android developer for Seecrypts new SC3 secure talk and chat application. The SC3 app is a chat application similar to WhatsApp but it had call and encryption functionality many months before WhatsApp. I built a new State machine that corrected multiple connectivity issues stabilising the app and decreased battery usage significantly. Also worked on new a messaging controller that stopped missing messages and duplicates from occurring.

Technologies:

- Android
- Java
- C and C++ with JNI
- SQLite and SQLCipher
- Cryptography
- Gradle

2014 **Java Developer,**

BSG Business Systems Group.

Software Development consultant for BSG.

Clients

○ **ABSA**

(3 Feb 2014 - 22 October 2014)

Developer on the end to end Branch Delivery Platform environment for 3 release cycles. The end to end BDP system is used by ABSA's bank tellers.

ABSA's E2E team utilises a modified Scrum methodology.

Technologies:

- C#
- MVC Razer
- Resharper
- WCS Services

Part Time

- 2007–2013 **Technician and Programmer,**
ETLIN International Trading (PTY) LTD
Intercontinental Shipping (PTY) LTD.
Fixed any Computer related issues and made Excel document creation programs through JXL
Detailed achievements:
- Set up computer systems for daily work of the company.
 - Created many Excel Editors to do many days work in a matter of minutes.

Miscellaneous

- 2005, 2007, 2008 **Team Captain & Participant at Karate World Championships,**
Scorpion Karate, Las Vegas, England, Italy.
Participated in World Shotokan Karate (FSKA - Fanakoshi Shotokan Karate Association) tournaments around the world. Team captain for England trip - 2007.
Won:
- 2 silvers (kata, unisan kata) Las Vegas
 - 1 silver (Kata) Italy
 - 1 Silver (unisan kata) England
 - 4th place (Komite) Las Vegas
 - 1 Bronze (Team Komite) England
 - 1 Bronze (Komite) Italy

Projects & Programs

- CUDA-Squeeze **SKA Compression project, Honours.**
SKA (Square Kilometer Array) compression project. Determine best method in order to compress the Radio Satellite data in real time. I worked on a Huffman coding & Adaptive Huffman Coding algorithm. This project was done in conjunction with: Benjamin Hugo and Heinrich Strauss.
<https://people.cs.uct.ac.za/~hstrauss/cudasqueeze/>
- Fly-DragonFly **Android Arcade Game.**
Android survival game based on old top down scrolling arcade games.
<http://cs.uct.ac.za/~btalbot/#/projects/flydragonfly>
- Nebulon 12 **XNA Arcade game.**
XNA (windows and Xbox) based 3D space game based on the arcade principals of Future Cop: LAPD.
<http://cs.uct.ac.za/~btalbot/#/projects/bbngame>
- Height Map
Analyser **Biology reduction Height Map Comparison program,** Allows for Graphing and many other comparisons between reductions in the UCT Biology department..
Intent to Publish
<http://cs.uct.ac.za/~btalbot/#/projects/heightmapanalyzer>
- Excel Editor **Excel document creator for ICS & ETLIN,**
Recurring,
ETLIN & ICS project.
Creates documents for ETLIN and ICS, from other excel documents created by MOSAIC.
<http://cs.uct.ac.za/~btalbot/#/projects/exceeditor>

University

- 2013–2013 **B.Sc Hons**, *University of Cape Town*, Cape Town.
Computer Science Honours
NRF (National Research Fund) Bursary - R40 000
- 2010–2012 **B.Sc**, *University of Cape Town*, Cape town.
Computer Science & Computer Games Design
- Extra Subjects
Taken
- **Linear Algebra & Advanced Calculus**
 - **Applied Mathematics**
 - **Cryptography**

Languages

- English **Mother Tongue**
- Afrikaans **Basic Understanding**

Computer skills

- Basic Python, LUA
- Intermediate SQL, OpenGL, Android, Microsoft XNA, CUDA, HTML, PHP, JavaScript, Delphi, libGDX, XML, UNITY, Unreal Engine, Kotlin, VB.net
- Advanced C & C++, Java, C#, Linux

Interests

- Karate Black Belt since 2007, Studied Shotokan Karate at Scorpion Karate under Shihan (6th Dan) Ravi Moodley
- Mountain Climbing Activity with friends and mountain biking

References

Name	Company	Phone number
○ Linda Lotter	○ ETLIN	○ (+27) 83 4447 334
○ Caroline Talbot	○ ICS	○ (+27) 82 5555 113
○ Ravi Moodley	○ Scorpion Karate	○ (+27) 82 6002 883
○ Philip De Kock	○ BSG Line Manager	○ (+27) 11 2156 666
○ Hennie Lessing	○ Entelect	○ (+27) 83 3791 626
○ Christopher Kieser	○ Seecrypt	○ (+27) 82 4564 489
○ Mike Bacus	○ Amazon SCOT	○ (+01) 503 616 8272

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Company Recruitment Office

June 14, 2019

Dear Sir or Madam,

I am an enthusiastic programmer that particularly enjoys graphics programming and data visualisation. I am highly dedicated and disciplined thanks to my Karate training, of which I trained for over 12 years.

I have a British Passport, and have nothing against having to travel or immigrate.

Out of all the projects I have participated in, I enjoyed those where I designed graphical visualisations for data, and the projects where I created the graphical sections for games.

I have a degree in Computer Games Design and have worked on multiple games in the past few years, using tools such as Microsoft XNA, LibGDX and Unity. My Games Design Degree has taught me OpenGL and GLSL.

I have taken Networking, Cryptography, Linear Algebra, Interface Design and User Experience courses at UCT and have many projects on my website:

<http://people.cs.uct.ac.za/~btalbot>

and Github page:

<https://github.com/DarkJaguar91>.

Regards,

Brandon Talbot

Attached: curriculum vitae