

Martin Ombura

Email: info@martinomburajr.com

Phone Number (KE): +254 797 107 317

www.martinomburajr.com

Work-Experience

Indoor Positioning System (Android, Java, JGrapht, iBeacon) - Software Engineer

Centum Investment Group/Two Rivers Management

(Work) (August-2017)-Present (Nairobi, Kenya)

- Developed an Android application that navigates shoppers to their desired stores at the Two Rivers Mall.
- Graph data-structures and Estimote beacons allow shoppers to locate where they parked their vehicles.
- Used iBeacon, EddyStone to enable proximity notifications and targeted content to users mobile devices.

Project-Tycho (Angular, RxJs, Firebase) - Software Engineer

Scarlaria Studios

(Work) (Jan-2017) - Present, (Nairobi, Kenya)

- Project-Tycho creates a fitness ecosystem that allows users to track their progress as well as interact with various fitness parameters to optimize their training.
- The project uses statistics/charts and predictive algorithms to match users with training-programmes/workouts and exercises to achieve their goals.
- Developed using Angular and Firebase

<https://tycho-fc797.firebaseio.com> (ongoing)

Email: info@scarlaria.com

Uplift App (Android, iOS, Firebase) - Chief Coder & Software Engineer

TeenActiv

(Work) Feb (2016) – October(2016), (Cape Town, South Africa)

- Developed an Android & iOS application that allows users to challenge each other on various categories e.g. education, health, whilst donating proceeds to local charities.
- Users earn rewards such as payment vouchers from trusted brands e.g. Vida etc. upon successful completion of the challenge.
- Integrated payment API to enable challengers to pay challengees.

Employer: Carsten Gertz

Contact: +27837333622

carstengertz@worldonline.co.za

CASABIO App (Android Java, REST) - Software Engineer

CASABIO

(Work) Feb (2016) – November(2016), (Cape Town, South Africa)

- Developed both a native and hybrid application for CASABIO organisation to allow users to interface with their online platform
- Learned how to create, manipulate and consume REST APIs
- Developed using native Java (Native), AngularJs and Ionic (Hybrid)

Employer: David Gwynne-Evans

Contact: +27723689244
capebio@gmail.com

City of Cape Town (Western Cape Government) (SAP, BPMN Collaboration, Business Analysis) - Business Analyst

(Work) July (2015) – October (2015), (Cape Town, South Africa)

- Worked as a Business Analyst for the City of Cape Town HR Department.
- Job entailed creation, analysis and recommendations for process improvement within the City of Cape Town HR Department using BPMN Collaboration diagrams and consultation with the employer.

Employer: Verity Japtha
verity.japtha@capetown.gov.za

Siyavula Mind Maps (Java, JGrapht) - Software Engineer
Siyavula

(Work) July (2015) – October (2015), (Cape Town, South Africa)

- Worked as part of a team to develop an application that displays mind-maps that aid teachers at Siyavula in elaborating conceptual linkages between the sciences.
- The application was written in Java, and utilized graph data-structures to create and illustrate the mind maps.

Supervisor: Michelle Kuttel
mkuttel@cs.uct.ac.za

EffcommSA (PHP ZendFramework, Javascript, SQL) - Developer
(Work) July (2015) – December (2015), (Cape Town, South Africa)

- Worked to integrate payment systems (WiGroup) to our rollout services and client platforms.
- Utilized test-driven development (TDD) to develop additional modules to the portal.
- Familiarized myself with Change Requests for Raymond James Internal Portal (UK Client).
- Worked primarily using PHP, Javascript and SQL as part of the Zend Framework.

Employer: Allister Smith
Contact: +27 21 447 0704
asmith@effcomm.com

EffcommSA (PHP ZendFramework, Javascript, SQL) - Developer
(Internship) (Cape Town, South Africa)

June (2015) – July (2015)

- Worked on the company's internal portal by fully automating their Intern Application System.
- Utilised several design patterns to improve performance (Observer, Singleton, Factory, etc.)
- Familiarized myself with Project Management Software as well as Revision Control Software such as JIRA and Bitbucket(Git).
- Worked using the SCRUM Software Design Methodology.

Employer: Allister Smith
Contact: +27 21 447 0704
asmith@effcomm.com

BancABC (VBA, SQL) - Fullstack Developer

(Work) (Dar-Es-Salaam, Tanzania)

June (2014) – July (2014)

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- Developed a Loan Tracker System using VBA and SQL to help the bank track loans made by their sales agents at real-time.
- Worked closely with the database administrator in South Africa, to feed the banks centralized information from South Africa to Tanzania using SQL Management Studio.

Employer: Bryne Rwodzi

Contact: +255779000640

brwodzi@bancabc.com

brwodzi@gmail.com

Media and Software Studio (PHP, Javascript, MySQL) - Intern

(Mombasa, Kenya)

(2012-2013)

- Helped develop the current Base Titanium website for a construction company located in Mombasa, Kenya. (basetitanium.com).
- Worked with PHP, MYSQL, Javascript and Version Control as well as industry software design-patterns.

Employer: Paul Schwarz

Contact: +254736998202

paul.schwarz@mss.co.ke

Education

- International Baccalaureate Diploma., Aga Khan Academy, (2012).
- B.Sc., Computer Science and Business Computing, University of Cape Town, (2015).
- Hons., Information Systems, University of Cape Town, (2016-2017). (Graduated May-2017)

Awards & Certificates

- Deans Merit List – University of Cape Town (2014)
- Second Class, Division One Honours – University of Cape Town (2016)
- Global Citizenship (GC1 – Globalization & Debates) – University of Cape Town (2016)
- Global Citizenship (GC2 – Service, Citizenship and Social Justice) – University of Cape Town (2016)

Professional Board Membership

- The Institute of IT Professionals South Africa (IITPSA) - Associate Member (AM17000005), (2017)
- Institute of Chartered IT Professionals (ICITP) - Associate Member (O064868), (2017)

Contact	Address (KE)
Phone: +254 797107317 Phone (ZA): +27 766283536 Email: info@martinomburajr.com Website: www.martinomburajr.com	House 14, Milimani Villas, Ralph Bunche Rd, Milimani, Nairobi.

Repository Links
Github Repository: https://github.com/martinomburajr/ <i>(Work with Assembly and various other languages)</i> Taiga Repository: @martin_omburajr