



Kale-ab Tessera

Software Engineer, Machine Learning Researcher



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kaleabtessera.com



kaleabtessera@gmail.com

About me

Kale-ab is a young, bright and ambitious Polymath, skilled in Software Engineering and applying Machine Learning algorithms. He is also adaptable and very open to learning new programming languages, methodologies and machine learning models in order to build on his previous knowledge. He considers a great work ethic and his ability to think innovatively as his greatest strengths.

Skills

Machine Learning and AI

Spring

ASP.NET MVC & .NET CORE

C#

Java

SQL, NoSQL

Python

Amazon AWS

React, Redux

(*) [The skill scale is from 0 (Fundamental Awareness) to 6 (Good Understanding).]

Education

Msc in Computer Science

2018 - 2019

University of Witwatersrand

Research

Reinforcement Learning, AutoML, Neural Network Architecture.

Coursework

Adaptive Computation and Machine Learning.

High Performance Computer and Scientific Data Management.

Artificial Intelligence.

Large Scale Optimization for Data Science.

Honours in Computer Science, Cum Laude

2016 - 2016

University of Pretoria

Honours in Computer Science majoring in Software architecture and Software Security.

B.Sc. Computer Science

2013 - 2015

University of Pretoria

The BSc (CS) degree emphasises the understanding of computer science fundamentals by offering a wide variety of computer science and mathematics courses.

PEPPS College

2008 - 2012

Polokwane

IEB Private School.

Research Committees

Black in AI

2017, 2018

Reviewed papers in Machine Learning.

Summer Schools

Deep Learning Indaba

2017, 2018.

One week intensive Summer School covering state of the art techniques in Machine Learning and AI.

Honours and Awards

2017

Academic Honorary Colours

Was awarded Academic Honorary Colours by the Student Representative Council of the University of Pretoria.

2016

Honours Cum Laude

80.75 % Average for Honours in Computer Science.

2015

Amazon Prize for Best Mobile Application - COS 301 Final Year Software Engineering Project

Our group created a mobile application, website and backend which allowed the recording and identification of stink bugs for SUBTROOP and the South African Macadamia Nut industry. We received Amazon Prize for Best Mobile Application for this project.

2013-2015

Golden Key Honour Society

Was selected to join the Golden Key Honour Society as a result of being in the top 15% of my degree.

2015

Merit Certificate for Leadership

I received this reward for leadership during my time as a House Committee member at House Boekenhout.

2012

Matric Academics

Notable achievements include being in the Top 1% of IEB IT Matric Students and receiving 7 Distinctions with an average of 87%.

2012

Deputy-Head Boy

Was selected as deputy-head boy of my school in my matric year.

2012

Academic Honours and Cultural Colours

Academic Honours were awarded for receiving Academic Colours (average above 80%) three years in a row. Cultural colours were awarded for excellence in various cultural activities such as chess and newspaper editing.



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Machine Learning and AI



Spring



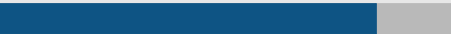
ASP.NET MVC & .NET CORE



C#



Java



SQL, NoSQL



Python



Amazon AWS



React, Redux



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Experience

Intermediate Software Engineer

Oct 2017 - Present

Entelect

Full Stack Development:

- Front-End: React, Redux, Redux Saga, Jest and Enzyme.
- Integration Layer/Backend: Spring Boot, Maven.
- Databases: MongoDB.
- DevOps: Docker, Openshift, Jenkins.

Software Engineer

Jan 2016 - Oct 2017

RetroRabbit

Full Stack Development:

- Front-End: Angular JS 1, React and Redux.
- Integration Layer/Backend: .NET MVC 4.5.2, .Net Core 1.1.
- Databases: SQL Server, MySQL.
- DevOps: Amazon AWS - EC2 and RDS instances, Web Servers (IIS).

Internship

Sept 2015 - Nov 2015

RetroRabbit

Learned about various interesting topics including Source Control, Cloud Computing (Amazon AWS) and IoT.

2 weeks vacation work

July 2015 - July 2015

BBD

Was involved in a Software Engineering project which had the following requirements - Android Application, use of .NET MVC 4.5 Framework for the backend and management of a SQL Server database.

House Committee Member, Secretary, Head of IT and Communications

Sept 2014 - Sept 2015

University of Pretoria

Helped lead various residence students and mentored those with academic difficulties. I was also expected to solve technical IT related issues.

Teaching Assistant, COS 212

Feb 2015 - Jun 2015

University of Pretoria

As a teaching assistant for Data Structures and Algorithms it was crucial to identify and recognize all the classical data structures; implement them in different ways; know how to measure the efficiency of implementations and algorithms.

Teaching Assistant, COS 110

Jul 2014 - Dec 2014

University of Pretoria

As a teaching assistant for Program design and Programming techniques, it was crucial to have good knowledge of object-oriented (OO) programming, and concepts including inheritance and multiple inheritance, polymorphism, operator overloading, memory management (static and dynamic binding) and encapsulation.

Skills

Technical expertise

- Python, Java, C#
- Pytorch, Tensorflow.
- ASP.NET MVC, .Net Core, Spring Boot
- React, Redux and Javascript
- Cloud Infrastructure : Amazon AWS - EC2 and RDS.
- SQL Server, Mongo and MySql

Online Courses

- Introduction to Python for Data Science- Edx
- Machine Learning by Stanford- Coursera