



Kale-ab Tessera

Software Engineer, Machine Learning Researcher



+27 766806878



<https://github.com/KaleabTessera>



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



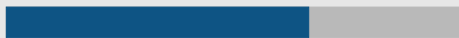
Spring



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).]

Experience

- | | | |
|----------------|--|------------------------|
| 2017- Oct 2018 | Cell C - React Website and Spring Boot API | Entelect |
| | Member of the Digital team helping develop new web platforms to match Cell C's Digital Strategy. | |
| 2017 | Kevro - API for Barron and Kevro Website | RetroRabbit |
| | The Kevro API was a central part of the Barron and Kevro website, which is an online shopping platform for wholesalers and brand owners. The API had to convert complicated business logic into simple workflows and securely interact with an intricate EMS system. | |
| 2017 | (Barclays Africa Group) ABSA Investment Management System | RetroRabbit |
| | The AIMS platform was developed to allow individuals to make investments via debit orders and/or lump sums for one of the biggest banks in Africa. | |
| 2016 | CuroHealth- Nubes Website and API | RetroRabbit |
| | The Nubes platform was developed to aid in the process of performing certain medical tests required for a medical aid program. The platform is responsible for managing nurses and their timetables, ensuring tests were done and results were sent to relevant insurance providers via an API, which allows seamless integration with numerous service providers. | |
| 2015 | Internship | RetroRabbit |
| | Learned about various interesting topics including Source Control, Cloud Computing (Amazon AWS) and IoT. | |
| 2015 | 2 weeks vacation work | 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. | |
| 2015 | House Committee Member, Secretary, Head of IT and Communications | University of Pretoria |
| | Helped lead various residence students and mentored those with academic difficulties. I was also expected to solve technical IT related issues. | |
| 2014 | Teaching Assistant, COS 212 | 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. | |
| 2013 | Teaching Assistant, COS 110 | 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. | |

Education

- | | | |
|-------------|--|-----------------------------|
| 2018-2019 | Masters in Computer Science
Machine Learning and AI | University of Witwatersrand |
| 2018 | Introduction to Python for Data Science | Edx |
| 2017 | Machine Learning | Coursera |
| 2016 | Honours in Computer Science, Cum Laude | University of Pretoria |
| 2013 - 2015 | B.Sc. Computer Science | University of Pretoria |
| 2012 | PEPPS College - IEB Private School | Polokwane |



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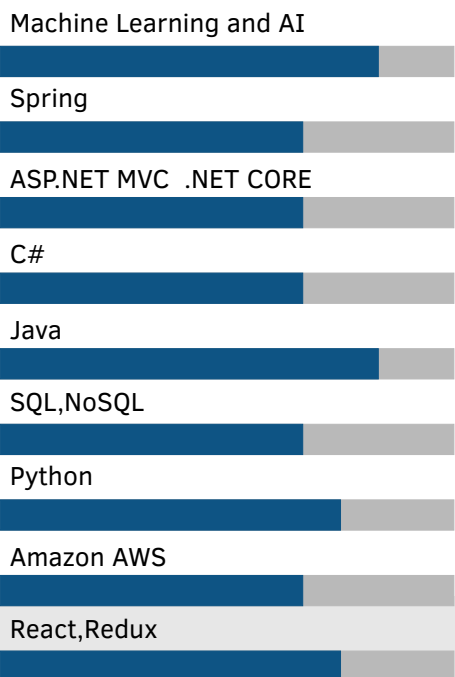
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Skills



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Honours and Awards

- 2017** Academic Honorary Colours
Was awarded Academic Honorary Colours by the Student Representative Council of the University of Pretoria.
- 2016** Hounours Cum Laude
80.75 % Average for Honours in Computer Science majoring in Software architecture and Software Security
- 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. This mobile application will be made available on the Android App Store.
- 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
 - Top 1 % of IEB IT Matric Students.
 - Received 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.

Skills

Technical expertise

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

Concepts

Experience in Software engineering, Machine Learning, Artificial intelligence, Database systems , Computer security and ethics, Computer networks, Programming languages, Formal Methods , Discrete structures, Linear algebra, Calculus, Mathematical modelling, Concurrent systems, Data structures and algorithms and Computer Architecture

Natural languages

English (full professional proficiency)