

Roscoe Kerby

AI Ops Engineer

Contact

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<https://runtime.withroscoe.com/>

Race

White

ID

9904245157080

Skills

Java

Python

Flutter

Windows

Linux

Mac

Firebase

SQL

Machine Learning

Computer Vision

I have over a decade of coding experience, specializing in full-stack software development, including Python, Flutter, Java, and AI/Machine Learning technologies (OpenCV, YOLO, etc). I hold an Honours degree in Computer Science (CS), complemented by an undergraduate degree in Mathematical Sciences (CS major), affirming my foundation in both theoretical and applied aspects of technology.

As an experienced full-stack and AI Ops engineer, I am exploring opportunities with innovative companies that align with my commitment to contributing positively to society. I am passionate about leveraging my skills to address meaningful challenges and significantly impact causes and people. Pursuing a role that resonates with my values, I aim to apply my expertise to create well-engineered solutions while fostering substantial professional and societal growth.

Education

2021

BSc Honours: Computer Science

University of Cape Town - Cape Town

Honours research project in gamification and critical success factors in online learning.

Modules: Artificial Intelligence, Human-Computer Interaction, Internet Systems Engineering (masters-level), Network and Internet Security, Research and Innovation, Big Data, Functional Programming, Compilers.

2018-
2020

BSc: Mathematical Sciences (Computer Science major)

Stellenbosch University - Stellenbosch

Third-Year Courses: Computer Science, Applied Mathematics, Operations Research, Scientific Computing.

2006-
2017

National Senior Certificate

South African College School (SACS) - Cape Town

6 Matric Distinctions, School Information Technology Prize
2015-2017.

Projects

- Co-developed and published the iOS app 'FiddleFit' and sole-developed the apps 'Liftt', 'Concentration Calc', & 'PowerLIFTING CALC' (iOS and Android). Find them at <https://runtime.withroscoe.com/>
- Developed machine learning and AI Python algorithms for image identification and classification, specifically for the IDScan project (see attached 'PROJECTS' file).
- Please refer to 'PROJECTS.pdf'

Tech Interests

Artificial Intelligence

Machine Learning

Green Technologies

Data Science

Sustainable Development

Other Interests

Self-Improvement

Gym

Fitness

Sport

Learning/Skill Acquisition

Happiness

Stoicism

Data Privacy Rights

Pipeline Work

- I am developing multiple new Flutter apps, including a squash match refereeing app, tic-tac-toe, an advanced colour converter, and more.
- Python script tools that encompass image handling, audio, video, and various utilities.
- I actively learn through tutorials and gain hands-on experience in personal and company projects. I am enrolled at [OpenCV University](#) pursuing their 'The 100K AI Accelerator Program'.
- Eskom Notifier App: <https://roscodetools.pythonanywhere.com/> (all written in Python and HTML)
- GitHub: <https://github.com/roscoekerby>

Work Experience

I have worked as a full-time, full-stack software developer since the beginning of 2022. At my first job, I was tasked with front-end and back-end work (mostly HTML, JavaScript, CSS, Flutter, C#, Visual Basic, and SQL).

In my current role, I lead our Artificial Intelligence initiatives, working extensively in Python. I also specialize in Flutter and Java development, with a strong focus on building and maintaining applications across both backend and mobile platforms. I streamline my workflow using industry-standard IDEs such as VSCode, PyCharm, and IntelliJ, while also leveraging my expertise in Java and SQL. My experience across diverse environments ensures that my skill set remains versatile and aligned with modern development practices. For a detailed overview of my recent projects, the technologies employed and my corresponding responsibilities and roles for each project/client, please refer to the attached PDF titled 'PROJECTS'.

Other Accomplishments

- Accomplished Western Province tennis and squash player; attended Stellenbosch University on a sports scholarship.
- Played Maties 1st Team Tennis from 2018-2019.
- Achieved a > 1000 lb [> 453.59237 kg] total across squat, bench, and deadlift in powerlifting.
- I contribute to the fields of Computer Science and Health & Fitness with articles on Medium: <https://medium.com/@roscoe.kerby> and <https://medium.com/@RepsWithRoscoe>, respectively.
- Host a podcast called '[The MUSCLE GROWTH Podcast](#)'.