Boitumelo Rapoo

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GitHub Portfolio | proximussss.github.io

Professional Overview

I am an analytical and driven final-year undergraduate student pursuing a Bachelor of Science degree **in Computer Science** at the **University of the Witwatersrand**. With experience in collaborative project development, tutoring, and innovative problem-solving, I am well-prepared to contribute effectively to technical roles.

Projects

KuduPark | 2nd Year *Computer Science Project ~ 2024*

- Designed and implemented a software solution in a team of 5 that aimed to demonstrate a solution to reducing congestion of the Wits road network by allowing parking spots to be booked ahead of time. Video and source code are available on my GitHub.
  - Tech Stack: Java, Android Studio, MySQL, PHP, and Adobe Photoshop for UI elements.

Qwik | *Personal project ~ 2025*

- Platform that creates cue cards for High school learners based on NSC past papers. This can be accessed on any phone or computer, which enables accessibility. It also times them as they do the question to promote improvements in speed and accuracy, making them ready to be assessed in that respective topic. Still in development and launching soon. Video and source code are available on my GitHub.
- Tech Stack : HTML, CSS(Tailwind), JavaScript, MySQL, GIT & NodeJS

LanceAI | *3RD Year Computer Science Project ~ 2025*

- Platform to connect freelancers and clients with the intention of addressing the broader socio-economic issue of unemployment. Clients post available jobs, sometimes odd jobs as well, then vetted available freelancers can apply for the jobs where remuneration for the one-off job will be provided on the get-go along with the freelancer's history. Still in development with possible AI integration and launching soon. Video and source code are available on my GitHub.
- Tech Stack : Microsoft Azure, HTML, Tailwind CSS, JavaScript, GIT, MySQL & NodeJS

Education

Bachelor of Science in Computer Science & Computational Applications | *University of the Witwatersrand, FT*

- *Final Year of Study* : 2025 (Full Time)
- *Relevant Coursework:* Parallel Computing, Software Design, Data Structures & Algorithms, Econometrics, Mathematical Economics, Mathematical Statistics, Business Accounting, Abstract Mathematics, Mobile Computing(Java App Development), Database Fundamentals (MySQL), Real Analysis, Macro and Micro Economics, Linear Algebra, Multivariable Calculus, Discrete Computational Structures and Computer Networking. Tech Stack includes C, Java, C++, Python, JavaScript, React, PHP and SQL.

Experience

CodSoft | *Java Intermediate Software Development, Feb-March 2025*

- I was tasked with five complex problems for which I had to **develop software solutions**. The program lasted for 2 months, and I received certification upon completing the challenge.

Mathematics & Coding AI Data Trainer(Remote) | *Outlier AI, United States of America, October 2024 - present*

- Contributed to enhancing AI-driven mathematical and Java code reasoning through reinforcement learning. Played a key role in the Kepler Project, which focuses on **training AI models to solve advanced**

mathematical problems by curating high-quality prompts and evaluating corrected responses. This work involved refining model output, improving problem-solving accuracy, and ensuring alignment with rigorous mathematical principles. I also worked on multiple coding projects concurrently.

Deputy Chairperson of the Promaths Alumni Society | *University of the Witwatersrand, 2024/25*

- Aimed at fostering a community of like-minded individuals in STEM courses together with the alumni of the Kutlwanong programme that seeks to give top-class math and physics lessons from Grade 10 to Grade 12.
- Curated events and currently working in a committee that serves 504 students who subscribed according to official Wits records. It is, as a result, the largest society at Wits currently(verified 2025 membership).

Hackathon Runner-Up | *Derivco Hackathon, University of the Witwatersrand, 2024*

- Collaborated with a team to develop an app tackling unemployment issues, leveraging Amazon Web Services to ensure scalability and efficiency.
- Recognized for team collaboration and innovative problem-solving skills

Golden Key Candidate | *University of the Witwatersrand, 2023*

- Recognized as a top academic achiever at WITS, demonstrating commitment to academic excellence and continuous personal development.

Mathematics Tutor (Grade 10 to 12) **|** *Black Child Tutoring Services Pty (LTD) , 2023*

- Created engaging math tutoring sessions that achieved a 95% pass rate and 85% satisfaction score through innovative problem-solving approaches.
- Designed lesson plans that emphasized core concepts and real-world applications, developing students' critical thinking and quantitative skills.

Graphic Designer | *Proficient in Adobe Creative Suite, 2022 - Present*

- Provide graphic design and marketing services to organizations, including the Promaths Alumni Society at WITS, aligning with branding goals to communicate key messages effectively.
- Demonstrated creativity and detail orientation in producing high-quality visuals using Adobe Creative Suite, reflecting my capability to deliver clear and compelling communication.

Founder | *Thrift Eazier, 2019 – Present*

- Established a successful online thrift business on Instagram focused on sustainability, handling customer engagement, marketing, and sales independently.
- Gained hands-on experience in decision-making, project management, and implementing innovative strategies to attract and retain customers.
- Developed strong organizational and interpersonal skills through managing all aspects of the business.

Summary

With a comprehensive foundation in data analysis, quantitative methods, and technical proficiency, I bring strong skills in problem-solving and solution development. My coursework in **Data Structures & Algorithms, Econometrics, Mathematical Economics, and Business Accounting** has equipped me to identify and analyze trends effectively, while subjects like **Abstract Mathematics, Linear Algebra, and Real Analysis** have honed my critical thinking abilities.

Proficient in technical tools such as **MySQL** and **Java,** I'm skilled in both **app development** and **database management**. Actively engaged in academic societies focused on mentorship and career growth, I am experienced in collaboration and have successfully **led team projects in academic and practical settings**.

Known for my adaptability and strong communication, I am comfortable working in diverse, dynamic environments, excelling in both individual and team roles where **complex problem-solving** and data-driven decision-making are required.