



Sayfullah Jumoorty

Student at the University of the Witwatersrand

BSc Honours in Computer Science (2024 - 2024) (University of the Witwatersrand)
BSc Computer Science (2021 - 2023) (University of the Witwatersrand)



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10 June, 2003



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SKILLS

Java C++ Python

PHP SQL C#

C JavaScript

React.js Node.js

Express.js Pascal

LANGUAGES

English
Native or Bilingual Proficiency

French
Professional Working Proficiency

INTERESTS

High Performance Computing

Super Computers

Software Engineering

Artificial Intelligence

Machine Learning

EXPERIENCE

Software Engineer Rand Merchant Bank (RMB)

01/2025 - Present

Johannesburg

Software Engineer Intern Syft Analytics

06/2023 - 10/2024

Johannesburg

Specialize in

- Google BigQuery
- Google Compute Engine
- Docker
- Automation (Terraform, Bash, etc)

ACHIEVEMENTS/EXPERIENCE

Competed at the 2023 International Supercomputing Conference (05/2023)

My team and I competed at the International Supercomputing Conference student cluster competition in Germany. Teams from around the world took part, and consisted of undergraduate and postgraduate students from renowned institutions. I was the vice captain for my team "CHPC", and we setup R17 million super-computer and competed against the other teams in terms of bench-marking certain applications provided to us. We prepared for this competition over the course of 6 months, personally working with engineers from Dell and TACC in Texas, and with CHPC and CSIR in South Africa.

1st place at the CHPC National Student Cluster Competition (11/2022 - 12/2022)

At the CHPC's 2022 National Conference, teams build small HPC clusters on the exhibition floor, or work on international supercomputing platforms from hardware provided by the CHPC and its industrial partners. My team and I dominated in this competition with our design and benchmarks, and took first place with our R300k cluster.

3rd place in Robotics Competition (09/2022 - 10/2022)

This was a University hosted event, in which we were required to use the NVIDIA Jetson Nano robot kit, and come up with a solution to make our robot successfully go around an unknown track. We ended up going for a reinforced learning solution, which scored us third place for our time to complete the track. This was done over the course of a month.

1st year University Dean's List (12/2021)

The Dean's List recognizes the top 10% students in each degree program at the University of the Witwatersrand.

The President's Award (10/2019)

Attained the Silver Standard of The Duke of Edinburgh's International Award.

PROJECTS (CAN BE SEEN ON LINKEDIN)

Space Crusaders (06/2023 - 11/2023)

- A 3D web browser game made using React Three Fiber which incorporates physics, custom graphics, shadows, animations, reflections and sound design.

Praktyk (06/2023 - 11/2023)

- An Afrikaans language learning app for both IOS and Android, with features similar to Duolingo. React Native, Node.js, Express.js and Firebase were used as the software stack, following scrum methodology in a team. Security features such as hashing and salting, and data protection were taken into consideration.

Linux Shell (06/2023 - 09/2023)

- Implemented a CLI using C, which correct formatting and error handling.

MPI Bitonic Sort & MPI Parallel Scan (02/2023 - 06/2023)

- Writing, optimizing and testing Serial vs OpenMP vs MPI versions of the Bitonic Sort and Parallel scan algorithms on both laptops and university clusters. I wrote a scientific report on the findings.

Project Arena (02/2023 - 06/2023)

- A website designed to host coding competitions for students, where multiple competitions can be hosted, with multiple teams for each, and a global leader board system. React.js, Node.js, Express.js and MySQL is the software stack being used for this project, following scrum methodology in a team.

Snake AI (10/2022)

- Using path-finding algorithms such as BFS and A*, find the shortest path to an apple while preventing enemy AI snakes from eliminating your agent, and competing with colleagues' snakes on the game board to achieve the most extended snake length.

Voltero (06/2022)

- A mobile app designed to allow people with COVID-19 to have their groceries delivered to them with the help of volunteers from the community.