

# Thabang Ramathe



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linkedin



github

## Education

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### University of Cape Town

2017 – 2020

Bachelor of Science in Computer Science and Business Computing

Cape Town, Western Cape

- **Relevant Coursework:** Data Structures and Algorithms (Java), Mobile Development (Android), Concurrent and parallel programming (Java), Computer Architecture (Assembly), Computer Networks (Java), Operating Systems (Java), E-commerce, IT Project Management, BPM and Enterprise Systems (JavaScript, HTML, CSS), System Analysis, System Design & Development (C#)

## Experience

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### Momentum Insure

Since January 2025

Java Developer - Contractor

Johannesburg, Gauteng Province

- Worked on Momentum Insure's internal project to migrate their Microservice Java 8 projects to Spring boot Java 21 and AWS EKS cloud.
- Wrote an API used by the Momentum App and website for their partnership with Tiger-Wheel & Tyre under their safety benefits.
- Set up Momentum Insure's TRN environment on AWS using Terragrunt.
- Worked on a compute service for calculating safe-dayz which is one of Momentum's safety benefits

### Psybergate Pty (Ltd)

Since August 2022

Junior Java Developer

Johannesburg, Gauteng Province

- Worked on a C# POC, looking into the use of C# for application development in enterprise-scale software.
- Did frontend testing using Cypress for a Patient Management System for different health conditions.
- I was Full-stack on an application to manage orders and deposits that would be integrated into SBV Connect.
- Worked on development for an internal application for capturing time.
- Worked on development for Psybergate's recruitment website.

### Psybergate Pty (Ltd)

Feb 2022 – July 2022

Intern

Johannesburg, Gauteng Province

- Worked on a finance project using angular on the frontend, spring on the backend and postgres for the database.
- The project was a financial forecast tool for investments and car loans, and a tax return calculation tool.

### Amazon Web Services

May 2021 – Aug 2021

SDE Intern

Cape Town, Western Cape

- Worked on functional testing for a documentation website.
- I built a crawler to find each page in the documentation.
- I also wrote tests to be run each of the pages, with exceptions to relevant pages for each test.
- The project was written in Typescript, used puppeteer for headless web crawling, also used Mocha and Chai for testing.

## Personal Projects

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### Remote Mouse App | Flutter, Dart, Python

- This is a mobile App for using your device as wireless mouse.
- Used a Flutter library to discover devices on the same network and web sockets for sending commands/data between the mobile device and the computer
- Wrote the server in Python using a library for controlling the cursor.

### Chess Engine | Java

- Wrote a chess AI using a min-max algorithm with alpha-beta pruning.

### Sudoku | Angular, TypeScript

- Wrote Sudoku generator by randomly filling a 9x9 grid with numbers from 1 to 9, then replacing cells with 0, to represent an empty cell, according to difficulty chosen.
- Wrote a Sudoku solver using a backtracking algorithm.
- First wrote it in Java and it was running on the command line, then wrote it in TypeScript when I decided to bring in a UI. Used Angular for the UI.

## Technical Skills

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**Languages:** Java, Python, TypeScript, C#, Dart, Javascript

**Technologies:** React.js, Angular, Spring Boot, Bootstrap, Node.js, Flutter, PrimeNG, PrimeReact, Cypress, Maven