

SIYAMTHANDA NDLOVU

FINAL YEAR COMPUTER SCIENCE STUDENT AT THE UNIVERSITY OF PRETORIA WITH 2+ YEARS OF GRAPHIC DESIGN EXPERIENCE WITH AN INTEREST IN FULL STACK WEB DEVELOPMENT, UI/UX, QUALITY ASSURANCE AND DEVOPS.

Software Development Portfolio

Pretoria, Gauteng

GitHub

siyamthanda.ndlovu.gasa@gmail.com

LinkedIn

Graphic Design Portfolio

CAREER HIGHLIGHTS

Vacation Worker at Jurumani Solutions (08/07/2024 - 19/07/2024)

Create logical flows using the vApp IoT platform to demonstrate the capabilities of Cisco Meraki IoT devices in smart homes and offices.

Key Skills : Technical Communication · Excel · APIs · Visual Basic

Computer Science Department Coordinator at Blue Crane Space at the University of Pretoria (10/2023 - Present)

(Continuous integration & continuous delivery, requirements gathering, cross-functional team collaboration, code review, setting goals and delegating, overseeing project scope, timeline, deliverables and milestones).

Key Skills : Full-stack Development · API design · Git/GitHub · DevOps · CI/CD · Leadership · Brand building · Code Review

Computer Lab Technician at AIM Labs at the University of Pretoria (06/2023 - Present)

(On-site general consultation, diagnosing hardware issues, performing software installations, casting (restoring Windows system images)).

Key Skills : Troubleshooting · Operating Systems · Communication

CERTIFICATIONS



Matlab Onramp

Certifying Organisations : Matlab



Succeeding in DevOps

Certifying Organisations : LinkedIn



Career Essentials in GitHub Professional Certificate

Certifying Organisations : GitHub, LinkedIn

EDUCATION

BSc in Computer Science

03/2021 - 06/2025 · (University of Pretoria)

- **COS 212 Data Structures and Algorithms** (Recursion, complexity analysis, sorting algorithms, string matching, data structures including graphs, binary search trees, AVL trees, b-trees)
- **COS 216 Netcentric Development** (API development, Responsive web design principles, AJAX, JSON, JQuery, MySQL, Security (SQL database attacks, encryption, hashing))

PROJECTS

Software Development Portfolio

A fully responsive NextJS application detailing software development and UX design projects I've worked on.

[View Portfolio Here](#)

Web Exploration Engine

The W.E.E. automates the extraction of critical website information and delivers user-friendly insights and reports through an intuitive and responsive website. I'm currently leading my team in DevOps and quality assurance to develop a system with over 70% test coverage, while also leading frontend development as a UI and UX designer.

[View Project Here](#)

Burgundy

Led my team in graphic design, DevOps, documentation for a restaurant simulation program that used C++ and software design patterns to mimic the functionalities of a restaurant

[View Project Here](#)

ACHIEVEMENTS & LEADERSHIP

2023 · Mentor at STARS Mentorship Programme (University of Pretoria)

2022 · Studienstiftung and University of Pretoria Global Leadership Experience (Common Purpose and University of Pretoria)

2021 · Vice Chancellor's Distinguished Merit Award Recipient (University of Pretoria)

2020 · DUX Award Recipient (Star College Durban)

TECH STACK & TOOLS



C++



JAVA



NEXTJS



BUN



NODEJS



REACT



DOCKER



SUPABASE



GITHUB ACTIONS



GITHUB



BASH



JEST



CYPRESS



UBUNTU



POSTMAN