

SIYAMTHANDA NDLOVU

DevOps · UI/UX · Quality Assurance · Software Development

Accomplished full stack developer specialising in software testing and UI/UX optimisation. Drawing from 3+ years of graphic design experience and client-focused project delivery, complemented by DevOps engineering expertise. Consistently combines thorough testing approaches with creative design insight to produce measurable results and exceptional user experiences across diverse projects.

Contact Information

Portfolio: [siyamthandandlovu.netlify.app](#)
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WORK EXPERIENCE

UI/UX Designer & Software Engineer · Data Science Law Lab · February 2025 – Present

- Transformed concepts into implemented web interfaces and developed responsive designs for cross-platform compatibility
- Conducted user testing and created high-fidelity prototypes to validate design decisions
- Key Skills:** Figma · Wordpress · Elementor · Angular · Javascript · UX Research, Design & Auditing · Prototyping · User Testing

UX Consultant · MyRunway · March 2025 – June 2025

- Audited user flows, benchmarked retail competitor experiences and provided stakeholders with detailed, actionable optimisation recommendations
- Key Skills:** UX Research · Usability Testing · Interaction Design · Competition Research · Stakeholder Communication

Lead DevOps & Testing Engineer · Web Exploration Engine · April 2024 – October 2024

- Built CI/CD pipelines to automate builds, tests, and deployments. Conducted server setups for real-time system monitoring
- Designed and implemented robust performance, scalability, end-to-end and integration tests for entire system
- Key Skills:** CI/CD Pipeline Setup · Docker · Linux · Prometheus · Grafana · Loki · GitHub Actions · JMeter · Sentry · Virtualisation · Integration & Performance Testing · System Monitoring · Automated Testing · [View Project Here](#)

Computer Lab Technician · University of Pretoria · June 2023 – February 2025

- Provided front-line software support for first-year users, logged technical issues in ticketing systems, conducted on-site consultations for troubleshooting, diagnosed hardware issues across client systems and performed system updates to maintain optimal system performance.
- Key Skills:** Software & Hardware Maintenance · Customer Service · Linux · Windows

IoT Developer · Jurumani Solutions · July 2024

- Configured Cisco Meraki IoT devices to collect, transmit, and visualise live telemetry data in real-time and developed dashboards for non-technical audiences
- Key Skills:** IoT Device Configuration · Excel · APIs · Visual Basic · Telemetry Analysis · Stakeholder Communication · [View Details Here](#)

Computer Science Department Coordinator · Blue Crane Space · October 2023 – October 2024

- Gathered requirements for departmental website implementation, created content to onboard future contributors and developed brand-aligned assets to reinforce the society's public identity
- Key Skills:** Full-stack Development · API Design · Leadership · Brand Building · Project Management · GitHub · Stakeholder Communication · [View Details Here](#)

EDUCATION

BSc in Computer Science · University of Pretoria · March 2021 – June 2025

Modules: Web Development, Data Structures & Algorithms, Artificial Intelligence, Computer Networks, Concurrent Systems and Software Modelling, Mathematical Modelling, Calculus, Statistics, Astronomy, Computer Security, Compiler Construction, Linear Algebra

Key Projects and Milestones

- Served as the Computer Science Department Coordinator at Blue Crane Space, a STEM society at the University of Pretoria that focuses on engineering (aerospace), pure mathematics, astronomy and astrophysics, chemistry and theoretical physics. · [View Details Here](#)
- COS 314 Artificial Intelligence** · Implemented meta-heuristic search algorithms, machine learning models, and swarm intelligence techniques to solve complex real-world problems such as optimal team formation and stock market prediction · [View Details Here](#)
- COS 332 Computer Networks** · Created common gateway interfaces, custom servers, clients, and synchronisation systems using protocols and services that included FTP, Telnet, SMTP, POP3, HTTP and LDAP

Matric Certificate · Star College Durban · January 2016 – December 2020

Subjects: Information Technology, Engineering Graphic and Design, Mathematics, Business Studies, Physical Science, Life Orientation, English HL, IsiZulu FAL

PROJECTS

Web Exploration Engine

- Tool using web scraping, zero-shot models & natural language processing (NLP) to gather, analyse, and present data.
- Provides user-friendly interface for website owners to manage reputation and compare competitors
- Led the DevOps and quality assurance efforts, designing a CI/CD pipeline to streamline deployment and automate testing

[View Project Here](#) · [View DevOps Overview](#) · [View Quality Assurance Overview](#) · [View GitHub Repository](#)

Burgundy

- Led development of a C++ program simulating restaurant operations like seating, orders, and kitchen flow.
- Applied software engineering principles and object-oriented design patterns to create a modular and maintainable codebase.

[View Project Here](#) · [View GitHub Repository](#)

TripSavvy

- Researched and defined problem space around taxi transport in South Africa
- Designed low- and high-fidelity prototypes tailored to both commuters and drivers
- Conducted market analysis, mental model research, and user interviews & validated final solution through usability testing and stakeholder feedback
- Built a prototype that addresses safety, transparency, and cost-effectiveness in informal transit systems

[View Website Here](#)

ACHEIVEMENTS & LEADERSHIP

DevOps Adherence Prize · 2024 · Southern Cross Solutions · Team Prize · [View Details Here](#)

Innovative Use of Data Prize · 2024 · Derivco · Team Prize · [View Details Here](#)

Vice Chancellor's Distinguished Merit Award · 2021 · University of Pretoria · Awarded to 74 of 2020's top-achieving matriculants across South Africa · [View Article](#)

SKILLS

Java

C++

Typescript

Python

NodeJS

Bun

Django

Tailwind

Cypress

JUnit

Jest

Postman

Prometheus

Apache

NestJS

Astro

React

Angular

GitHub Actions

Jenkins

Grafana

Postgres

MongoDB

NEO4J

MySQL

JMeter

Figma

Ubuntu

Kali

Docker

Ansible

Bash

Sentry

Git

Microsoft Office Suite

Wordpress