

## Contact

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## Top Skills

Spring Boot

UX/UI design

Generative AI for Learning and Development

## Certifications

AFRIHACK CONNECT  
HACKATHON

Learning Git and GitHub (2021)

Programming Foundations: Software Testing/QA

Agile Foundations

Programming Foundations: Object-Oriented Design

# Fhumulani Makungo

Software Developer @ Plum Systems | Generative AI, Software Documentation | Science & Technology  
City of Cape Town, Western Cape, South Africa

## Summary

Final-year ICT Applications Development student at CPUT and Software Developer at Plum Systems, building responsive web and mobile applications with React, React Native, and Expo. Skilled in front-end development, REST API integration, and Firebase-powered solutions.

Previously, I contributed to the NRF South African Astronomical Observatory, supporting digital platforms, interactive systems, web projects, and Astronomy science engagement initiatives.

Passionate about leveraging my technical skills across software development, UI/UX design, interactive systems, and digital solutions to drive innovation, deliver user-centered solutions, and contribute to impactful tech projects.

Key Skills: React | React Native | Vue.js | JavaScript | PHP (Laravel) | Java (Spring Boot) | HTML/CSS | Firebase | REST APIs | UI/UX Design | Agile Collaboration | Technical Troubleshooting

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## Experience

### Plum Systems

Software Developer

January 2025 - Present (10 months)

City of Cape Town, Western Cape, South Africa

Front-End Developer focusing primarily on React and React Native development. My work involves building, improving, and maintaining user interface components for web and mobile applications, ensuring a consistent and user-friendly experience. I frequently collaborate with backend developers, designers, and QA engineers, gaining exposure to the full software development lifecycle.

Key Responsibilities and Achievements:

- Built and enhanced responsive UI features using React, React Native, and Expo, contributing to several live client projects.
- Applied state management principles (using Redux and Context API) to manage complex component states and data flow.
- Gained a better understanding of Integrating REST APIs to connect front-end components with backend services and dynamic data sources.
- Collaborated on projects that utilized Firebase for authentication, real-time data, and cloud functions, gaining practical familiarity with backend integrations.
- Tested and debugged applications using Expo Dev Tools, and Chrome Developer Tools, ensuring smooth functionality and performance.
- Maintained clean and consistent code with ESLint, Prettier, and clear commit practices in GitLab repositories.
- Contributed to documentation by in code commenting , writing setup and testing notes, and documenting reusable UI components for team reference.
- Participated in stand-ups, providing progress updates and collaborating on issue resolution.
- Continued self-learning on tools such as Firebase Cloud Functions, and CI/CD pipelines, applying this knowledge to improve debugging and build efficiency.

## South African Astronomical Observatory

1 year 8 months

### Science Engagement Assistant

July 2024 - January 2025 (7 months)

City of Cape Town, Western Cape, South Africa

Focus: Technical support & project implementation, with continued administrative responsibilities

- Office Administration & Oversight: Assisted in daily administrative tasks and oversaw intern activities to ensure smooth operations.
- Communications: Managed internal and external communications, responding promptly and professionally to inquiries via email and phone.
- Event & Project Planning: Assisted in planning, organizing, and coordinating science engagement events and projects (AstroQuiz and Olympiads), ensuring timelines and objectives were met.
- Media & Content Creation: Supported development and management of media content for internal and external platforms.
- Visitor Technology Support: Maintained and troubleshoot advanced interactive systems, including VR experiences, LED projection setups, touchscreen displays, holographic units, and a solar telescope interface.

- **Front-End Development:** Contributed internal web projects (PHP, HTML, CSS, JavaScript) with UI design, layout refinement, and basic functionality testing.
- **App & Content Coordination:** Assisted in updating and managing app and kiosk content, collaborating with developers to ensure accurate and functional interfaces.
- **Technical Collaboration:** Worked closely with IT to resolve software/hardware issues, improving system reliability and user experience.
- **Event & Outreach Support:** Ensured all technical systems were operational during public engagement events.
- **Documentation & Reporting:** Logged recurring technical issues, system resets, and workflow improvements for internal tracking.

### Science Engagement Intern

June 2023 - July 2024 (1 year 2 months)

City of Cape Town, Western Cape, South Africa

- **Office Admin:** Perform daily administrative tasks to ensure smooth operations.
- **Communications:** Handle internal and external communications, Responding promptly and professionally to inquiries through our SAAO contact platforms (email and Telephone).
- **Event planning and coordination:** Assist in planning, organizing, and coordinating science engagement and outreach events, ensuring that all logistics and details are managed efficiently while meeting timelines and objectives.
- **Project planning, coordination, management:** Assist in the planning and coordinating various projects (AstroQuiz and Olympiads), ensuring timelines and objectives are met.
- **Media & Content creation:** Assist in developing and managing media content for internal and external platforms (Mobile app, Website, Podcast, and Youtube), ensuring consistent and effective messaging.

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## Education

Cape Peninsula University of Technology

Higher National Diploma, Information Technology · (2023 - 2025)

University of the Western Cape

Master of Science - MS, Nanoscience (MedBio) · (2020 - 2022)

University of Venda

Bachelor of Science - Honors , Microbiology · (2018)

University of Venda

Bsc, Biochemistry, and Microbiology · (2017)