

# ZAKHIR KEANE MCKINNON

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<https://flyinginsectsunpig.github.io/Personal-Website/>

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Enthusiastic junior software developer with 5 months of enterprise Work Integrated Learning experience at COGENT (Azure DevOps, C#, RPA & AI-assisted automation) and hands-on full-stack & ML projects. Been coding since high school and recently completed a Diploma in ICT Applications Development. Passionate about building clean, scalable solutions and continuously learning modern technologies. Click my website for an interactive experience of my skills.

## AREAS OF EXPERTISE

Java • Python • Typescript • HTML/CSS • SQL • C# • Azure DevOps • Pandas • NumPy • Scikit-learn • Keras • Matplotlib • Machine Learning • Data Analysis • Git • Github • Node.js • REST APIs • RPA

## COURSES

- [Machine Learning A-Z: AI, Python & R](#)
- [Ethereum Blockchain Developer Bootcamp With Solidity](#)
- Azure Fundamentals (AZ900) – completed

## EDUCATION

### Cape Peninsula University of Technology 2025

Diploma: ICT in Applications Development

## WORK EXPERIENCE

### COGENT | Work Integrated Learning August 2025 – December 2025

Supported version control and collaborative workflows using Azure DevOps, worked in C# using ABP Framework, designed and implemented RPA solutions with Blue Prism, accelerated automation development through AI-assisted tools (Copilot agents and Stubber).

## PROJECTS

### [PrintIt101](#) & [PrintIt101client](#) – Collaborative 3D T-Shirt Customization Platform

Full-stack enterprise-style web application developed with classmates, allowing users to upload logos, adjust position/rotate/scale on a realistic 3D t-shirt model, and generate production-ready customization outputs.

- Built the **frontend** using **TypeScript**, modern React practices, and Three.js for real-time 3D rendering and accurate logo placement
- Developed the **backend** in **Java** Spring Boot, handling file uploads, transformation calculations, and API endpoints for client-server communication
- Applied key design patterns including **Builder** and **Factory** to create clean, maintainable architecture and improve code extensibility
- Collaborated in a team environment using Git workflows, demonstrating strong version control and code review practices

### [LoL-Skin-Buff-Nerf](#) – League of Legends

#### Patch Changes Viewer

Web application that parses League of Legends patch notes and displays only the most relevant information: champion buffs/nerfs and associated skin changes.

- Implemented data scraping/parsing logic in **Python** to filter and extract balance changes from official patch sources
- Created a clean, focused frontend interface using **HTML**, **CSS** to present champion and skin updates without patch note clutter
- **Machine learning** capabilities to classify / predict impact of buffs & nerfs or skins
- Demonstrated data processing and web presentation skills relevant to real-time game data analysis