

Andrew Ipu

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[GitHub Profile](#) • [Personal Portfolio](#)

Education

Concordia University of Edmonton

Master of Science in Information Technology

Cumulative GPA: 3.71

Edmonton, AB

Expected January 2026

United States International University

Bachelor of Science in Applied Computer Technology

Concentration in Forensic IT & Cybercrime

Nairobi, Kenya

2017 - 2022

Experience

Kenya Mortgage Refinance Company (KMRC)

Nairobi, Kenya

Technical Support Intern

June 2022 – August 2022

- Responded to users experiencing computer difficulties across multiple departments, including risk, credit, HR, and finance.
- Provided user training and documentation support such as disaster recovery, and failover plans; contributed to security policy review.
- Assisted in setting up and configuration of systems and software.
- Created third-party risk assessment framework to evaluate vendor security posture.
- Logged and tracked incidents, collaborating with teams to resolve issues.
- Supported testing and implementation of an Event Management System (EMS) to streamline internal operations.
- Updated and optimized ICT patch and vulnerability management plan to align with current security standards.

Skills & Interests

Soft Skills: Strong problem-solving and critical thinking abilities, Client-focused support mindset, Self-motivated and committed to continuous learning, Clear and thoughtful communicator in both written and verbal forms, Ability to multitask, problem-solve, work under deadlines, Detail-oriented with a methodical approach to technical work, Comfortable with feedback and iterative improvement and a Collaborative team player with a willingness to seek input and support others.

Technical: Python, JavaScript, HTML/CSS, Git/GitHub, SQL, Excel, Regex, Visual Studio Code, Android/Mac/Linux, Google Colab, Pi-hole, Flask, React and Vite, competent in TCP/IP, DNS, and LAN/WAN setup.

Language: English (fluent), Swahili (fluent).

Laboratory: YOLOv8, TensorBoard (Model evaluation), Scikit-learn (Model development), Matplotlib/WandB (Data visualization),

Certificates

FreeCodeCamp

- [JavaScript Algorithms and Data Structures](#)
- [Scientific Computing with Python](#)
- [Responsive Web Design](#)

Acquired March 8th 2024

Acquired March 14th 2023

Acquired January 20th 2023

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Immersive Labs

- 7hrs of training in offensive security.
- Over 30 labs completed – SQL injection, Network Scanning, SQLmap, Banner grabbing, etc.

Projects

Adaptive Rock-Paper-Scissors

- Developed an adaptive Rock-Paper-Scissors game using Python and the locaine Powder algorithm
- Optimized the original C-based source code using Cython for deployment.
- Deployed a web-based version using React, Vite and Flask.

Personal Portfolio

- Developed a personal portfolio website using HTML and CSS.
- Built a fully responsive layout compatible with various screen sizes and resolutions.
- Showcased additional web development projects within the site.
- Deployed the website on GitHub using GitHub Pages.

Machine Learning – Sentiment analysis model using Recurrent Neural Network

- Model was used to predict overall sentiment of various movie reviews left by viewers after viewing.
- Model was trained using open source IMDB database with 25,000 training samples and 25,000 testing samples.
- Model produced good results with an overall accuracy of 85%.
- Model was imported to TensorBoard for visual analysis of its performance.

Leadership & Activities

Mama Fauzia Children's Home

Nairobi, Kenya

Community Service

January 2021 – April 2021

- Worked with the on-site general manager to conduct needs assessment.
- Collaborated with team to gather resources in accordance with data from needs assessment.
- Worked jointly with team treasurer to ensure funds from donations were allocated and spent appropriately.