

Peter Chibuikem Idoko

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SUMMARY

Software Developer with a background in backend systems, cloud deployment, collaborative teamwork, and machine learning. Proficient in Python, React, PowerShell, and TypeScript, with hands-on experience building end-to-end solutions using Streamlit, Google Cloud Platform, and LLMs. Passionate about transforming public data access, cybersecurity, civic technology and automating infrastructure at scale.

EDUCATION

Northeastern University, Vancouver, BC
Master of Science in Computer Science

Sep. 2023 – April 2026
GPA: 3.50

Northern Alberta Institute of Technology, Edmonton, AB
Bachelor of Technology in Technology Management
Honors: Dr. Gary McPherson Leadership, Dean's List

Sep. 2016 – April 2021

PROJECTS

[CivicUnlock.com](https://civicunlock.com) (AI-Powered Document Search Engine), Python, Streamlit, Vertex AI, LangChain, GCP

- Built an end-to-end LLM-powered semantic search system for Whitehorse City Council documents.
- Designed embedding pipelines, chunking strategies, and a vector store with Vertex AI for high recall and relevance.

Deloitte Hackathon Semantic Search Engine, Python, LangChain, RAG models

- Led team development of a custom semantic engine that improved RFP discovery for Deloitte's Higher Education vertical.
- Engineered data preprocessing, embedding optimization, and modular code structure using LangChain.
- Placed 3rd in Deloitte's hackathon; recognized for clarity, speed, and model accuracy reducing hallucinations.

[Mosaic Generator App](#): Python, OpenCV

- Created a visual rendering tool that reconstructs input images using nearest-neighbor matching from a tile dataset.
- Optimized performance with KD-Tree spatial indexing and vectorized color histograms.

[Texture Classification App](#), Python, Scikit-learn, Gradio

- Engineered a real-time texture classifier using handcrafted features (GLCM, LBP) and ML models (SVM, k-NN, Random Forest).
- Achieved 92.5% accuracy; deployed live using Gradio with test-time interactivity.

Object Detection, Python, OpenCV, Gradio

- Built a webcam-based object detection tool using Haar cascades and OpenCV stream processing.
- Deployed dual-mode: local preview and web-based inference through Gradio.

[Pidoko.com](https://pidoko.com), React, TypeScript, Next.js, WindiCSS

- Designed and deployed a responsive personal portfolio using React-based architecture to showcase projects, skills, and professional experience.
- Built with performance and scalability in mind, featuring scroll-based storytelling, animated skill visualizations, and a component-driven design system.

EXPERIENCE

VACFSS, Vancouver, BC

May. 2024 – Apr. 2025

Information Technology Coordinator

- Completed a current-state review of existing IT systems and completed business cases for the new proposals.
- Conducted comprehensive cybersecurity audits utilizing Nessus and the NIST framework, culminating in the organization's inaugural security baseline.
- Spearheaded the deployment of Remote Desktop Services and Duo MFA, enhancing secure remote access and curtailing phishing risks by 99%.
- Implemented a Veeam Immutable Backup Storage system, fortifying ransomware resilience and ensuring data immutability.

- Developed an Airtable-based IT Asset Management System featuring real-time analytical dashboards for forecasting and tracking.
- Authored detailed documentation, including policies, procedures, and schematic diagrams, facilitating streamlined communication.
- Implemented Freshdesk for ticketing, improving interdepartmental communication and operational workflows.
- Improved SLA response and resolution rate to about 95%.

Northeastern University, Vancouver, BC

Jan. 2024 – Aug. 2024

Project Coordinator

- Designed an automated registration system for hackathon participants using Airtable and custom workflows.
- Enhanced technical documentation and digital signage for capstone project communications, improving accessibility for students and staff.
- Adapted Airtable to create dashboards and automations for Earth Day 2024 visioneering event planning.

First Nation of Nacho Nyak Dun, Whitehorse, YT

Dec. 2021 – Dec. 2023

Manager, Information Systems

- Implemented an asset management system using Airtable, reducing time spent on record searches by over 30 minutes daily.
- Developed a disaster recovery plan that addressed cybersecurity and physical challenges unique to the Yukon such as wildfires, flooding and cold snaps.
- Automated data collection for licensed users and domain computers with Python and Powershell scripts.
- Created policies and procedures to standardize employee workflow and increase efficiency.
- Supported a hybrid environment of Windows, Mac, Linux, iOS, and Android systems.
- Created communication plans with stakeholders to set scheduled discussions, and preferred avenues of communication.
- Created work breakdown structures for IT projects using MS Project.
- Managed project risks by creating risk registers, risk assessment matrices, and contingency planning using MS Project.
- Managed project scope changes by creating scope change workflow, creating a project baseline, evaluating impact of proposed scope changes, and maintaining documentation using MS Project.
- Maintained Project Management sites for template storage, project statuses, dashboard updates, and general data organization on MS Project Web Application (PWA), MS Project and SharePoint for IT projects.
- Enhanced documentation tracking process by facilitating transition from spreadsheets to SharePoint site in two weeks, as compared to planned 8-week timeline.

First Nation of Nacho Nyak Dun, Whitehorse, YT

Jan. 2019 – Dec. 2021

Technician, Information Systems

- Managed hybrid project to research and implement records classification and retention system to save hours spent searching for documents in the office and on the server.
- Led cybersecurity project that adapted Axonious cybersecurity asset management system to capture devices on our network from 7 sources, and generated visualizations to facilitate data driven decision-making.
- Led IT technical support for citizens and employees, achieving a 1-hour mean time to respond, 3-hour mean time to resolve, and resolving nearly 30,000 tickets in two years, utilizing Spiceworks for ticket tracking, conducting level 1/2/3 technical support, and gathering feedback for continuous improvement.

TECHNICAL SKILLS

Languages: Python, Java, Typescript, Powershell, Bash.

Frameworks: React, Streamlit, Spring Boot

Dev Tools: Git, VSCode, JUnit, Docker.

Cloud & AI: Google Cloud Platform, Vertex AI, OpenAI, LangChain

Data: Pandas, NumPy, SQL, Tableau, Excel

CERTIFICATIONS AND TRAININGS

Certifications: Certified Associate in Project Management (CAPM)® and CompTIA Network+.

Training: Conflict Resolution; Ethical Leadership; Entrepreneurship, Technical Writing and Content Generation