






Allan Cheboiwo

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PROFILE

Aspiring software engineer with a BSc in Computer Science (June 2025) and hands-on experience in full-stack development, backend systems, and network engineering. Proficient in Python, Java, JavaScript, and modern frameworks like React and FastAPI. Passionate about building scalable, efficient software solutions and collaborating on innovative projects.

EDUCATION

University of British Columbia

Kelowna, BC

Bachelor of Science in Computer Science, GPA: 87.7

Sep 2020 – Jun 2025

- Relevant Coursework: Machine Learning, Data Structures and Algorithms, Computer Networking, Software Engineering, Object-Oriented Programming, Data Analysis, Parallel Programming, Machine Architecture
- Awards: Faculty of Science International Student Award, Deputy Vice-Chancellor Scholarship (2021-2023)

EXPERIENCE

Acronym Solutions

Toronto, ON

Co-op Student, Network Engineering

September 2023 – September 2024

- Updated network diagrams to support optical network and data refresh projects, improving team reference materials.
- Assisted in early-phase Passive Optical Network (PON) setup in a testing lab, contributing to configuration tasks.
- Used CLI on UNIX/Linux systems to validate network data, ensuring accurate documentation.
- Created documentation for Network Switch Replacement project, aiding team coordination.

University of British Columbia

Kelowna, BC

Teaching Assistant, COSC 121 & DATA 101

September 2021 – April 2022

- Assisted students with R and Java lab assignments, providing code reviews and debugging support.
- Explained technical concepts during lab sessions, enhancing student understanding.
- Graded assignments and provided feedback to improve coding and data analysis skills.

University of British Columbia

Kelowna, BC

Orientation Leader

August 2021 – September 2021

- Facilitated interactive group activities and icebreakers for incoming students, fostering connections and helping them build a supportive community to ease their transition into university life.
- Presented detailed information about university resources, including academic support, health services, and campus facilities, improving student awareness and access to essential support systems.
- Collaborated with a team of orientation leaders to plan and execute welcoming events, ensuring a smooth and engaging onboarding experience for over 200 new students.

PROJECTS

Insurance Policy Checker

- Co-developed a full-stack NLP-based application to automate insurance policy data comparison, reducing processing time.
- Implemented scalable backend with FastAPI and PostgreSQL, deployed via Docker for seamless integration and portability.
- Designed responsive frontend using React, enhancing user interaction and accessibility.

Multi-Object Tracking

- Built a machine learning model for real-time pedestrian tracking using YOLOv8 and Kalman filtering.
- Integrated MiDaS for depth estimation on 2D datasets and optimized performance with PyTorch and OpenCV.
- Documented model architecture and results, enabling reproducibility and future enhancements.

AI-Powered Resume Builder

- Developed a full-stack web app with React and FastAPI to tailor resumes using OpenAI API for dynamic content generation.
- Engineered RESTful APIs with PostgreSQL (SQLAlchemy ORM) to manage user profiles and job descriptions.
- Implemented LaTeX-based PDF generation for professional resume formatting.
- Containerized using Docker and docker-compose for streamlined development and deployment.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C, PHP, R

Frameworks & Libraries: FastAPI, Django, React, Node.js, Spring, PyTorch, OpenCV, NumPy, Pandas

Databases: PostgreSQL, MySQL, SQLite, MongoDB

Tools: Docker, Git, Jenkins, AWS, GitHub

Concepts: RESTful APIs, Microservices, CI/CD, Agile Methodologies, Test-Driven Development

Soft Skills: Team Collaboration, Problem-Solving, Communication, Time Management