

Can Sahin

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TECHNICAL SKILLS

- **Languages:** Python, Java, C++, C, JavaScript, TypeScript
- **DevOps:** Git, Docker, Linux, Terraform, CI/CD
- **FW / Lib / DB:** scikit-learn, PyTorch, TensorFlow, XGBoost, pandas, NumPy, Apache Spark, PostgreSQL
- **Web:** React, Tailwind CSS, FastAPI
- **Tools:** Streamlit, Power BI, Wireshark

WORK EXPERIENCE

Software Engineer

University of Ottawa, Ottawa/ON

September 2023 - April 2024

- Developed Python scripts and data validation logic to improve the reliability of enterprise architecture datasets, eliminating manual QA steps and ensuring consistent inputs for governance reviews.
- Implemented analysis scripts to surface duplicated workflows across 30+ IT initiatives, supporting consolidation discussions and contributing quantified efficiency estimates (20–30%).
- Generated structured datasets and technical documentation consumed by senior enterprise architects to evaluate modernization and standards compliance in system design reviews.

Software Developer

March Networks, Kanata/ON

January 2023 - April 2023

- Automated compliance reporting by developing Python tooling that replaced Excel-based workflows, reducing manual effort by ~80% for legal and R&D teams.
- Improved consistency of license and vulnerability analysis across 3,000+ components by developing and maintaining production data-processing scripts.
- Reduced reporting runtime by ~50% by optimizing data-processing logic and algorithms in large-scale compliance workflows.

PROJECTS

- **Cell Type Classification with scDeepInsight**: Adapted and extended an open-source deep learning pipeline to classify cell types from large-scale single-cell RNA-seq data. Implemented preprocessing workflows, trained an EfficientNet-B3 CNN using PyTorch, and evaluated cross-dataset generalization, achieving 94.7% within-dataset and 92% cross-dataset accuracy.
- **F1 Race Finish Predictor**: Developed a Streamlit-based F1 race finish predictor that predicts race finishing order from starting grid positions using a regression model trained on 2025 season data.
- **Portfolio Website**: Developed a modern portfolio website using React, Vite, and Tailwind CSS, optimized for performance across devices.
- **Dentist Clinic Management System**: Developed a Java and PostgreSQL backend system for clinic scheduling, including patient record management, administrative workflows, and role-based access control.
- **C++ Card Game**: Implemented a terminal-based card game in C++ using object-oriented design, featuring turn-based gameplay, rule enforcement, and structured input/output handling.

EDUCATION

Honours BSc Computer Science with CO-OP Option

University of Ottawa

September 2020 - April 2025
Cum Laude

- **Relevant Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Introduction to AI, Fundamentals of Data Science, Computer Networks Protocols, Design of Secure Computer Systems, Operating Systems, Computer Architecture, Data Communication and Networking
- **Dean's Honour List:** Winter 2025

LANGUAGES

- **English:** Native or Bilingual Proficiency
- **Turkish:** Native or Bilingual Proficiency
- **French:** Full Professional Proficiency