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
- **Web:** React, Tailwind CSS, FastAPI
- **Tools:** Streamlit, Power BI, Jupyter Notebook, Wireshark

WORK EXPERIENCE

Technical Analyst September 2023 - April 2024
University of Ottawa, Ottawa/ON

- Built Python automation pipelines to clean, validate, and structure enterprise architecture data, replacing manual QA workflows and improving data reliability for governance reviews. Analyzed workflows across 30+ IT initiatives to identify duplicated processes and quantify 20–30% efficiency gains through ML-driven automation. Delivered data-driven insights and recommendations to senior enterprise architects, directly supporting Architecture Review Board decisions and modernization planning.

Software Developer January 2023 - April 2023
March Networks, Kanata/ON

- Automated software compliance reporting using Python, replacing Excel-based workflows and reducing manual processing effort by approximately 80% while improving data consistency for legal and R&D teams. Built scalable, tested pipelines to process license and vulnerability data across 3,000+ components, including validation tools to flag high-risk license changes and accelerate release approvals. Optimized large-scale data processing through algorithmic improvements, cutting runtime by roughly 50% for critical reporting tasks.

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.

WORK EXPERIENCE

Honours BSc Computer Science with CO-OP Option September 2020 - April 2025
University of Ottawa *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
- **Dean's Honour List**: Winter 2025

LANGUAGES

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