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

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 quantified 20–30% efficiency gains through 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.

EDUCATION

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, 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