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

- Improved enterprise architecture data reliability by developing Python scripts and validation workflows, reducing manual QA effort and enabling consistent inputs for governance reviews.
- Identified duplicated workflows across 30+ IT initiatives by analyzing submission processes, contributing efficiency estimates of 20–30% referenced in Architecture Review Board discussions.
- Enabled modernization and standards compliance decisions by preparing structured datasets and documentation used by senior enterprise architects in system design reviews.

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

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