

AHMED ISMAIL

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Technical Skills

Languages: Python, Java, C, C++, Rust, JavaScript, TypeScript, Go (Golang), Bash, SQL
Cloud / DevOps: AWS, Docker, Serverless Framework, Terraform, OpenTofu, GitHub Actions, Linux
Frameworks: Flask, React, Express.js, Node.js, TestNG, Spring Boot, Selenium, k6, PyTest, gRPC, Git
Databases/Stores: MySQL, PostgreSQL, MongoDB, Redis
AI/ML: PyTorch, TensorFlow, OpenCV, OpenVINO, NumPy, SageMaker, Databricks, YOLO
AI Tools: Cursor, Claude Code, Codex, OpenClaw

Work Experience

Tesla May 2025 – Present
AI/ML Software Engineer San Francisco Bay Area, United States

- Trained **YOLO** damage-classification models in **PyTorch/OpenCV** reaching **98.9%** recall at a **2.1%** false-positive rate in production
- Raised model F1 from **0.86 to 0.95** over **30+** iterative **NVIDIA** GPU training jobs on robotaxi exterior/interior damage detection
- Reduced labeling time **50%** with a semi-automated **Label Studio** pipeline feeding **10K+** high-quality annotations into training
- Improved **mAP 12%** by fine-tuning pretrained **YOLO** weights on a curated **20K-image** robotaxi exterior/interior damage dataset
- Built **hardware API** linking cameras and **Raspberry Pi** to automate robotaxi service actions, cutting manual inspection **70%**
- Built **Arduino**-driven laser trigger cutting capture latency to **<10us** and reducing missed/blurred frames **90%**

TrendAI January 2026 – Present
AI/ML Software Engineer Intern Ottawa, Ontario, Canada

- Deployed a real-time ML pipeline with **Python, PyTorch, TensorFlow**, and **OpenVINO** for low-latency AI guardrail detection
- Implemented **Terraform IaC** for **AWS SageMaker** Model Registry across 10 regions, reducing **ML model** provisioning time by **90%**
- Designed an **AWS CloudWatch** dashboard for **15+ Lambdas** across **4 environments**, increasing alarm detection speed by **28%**
- Established **CI/CD** with **GitHub Actions** and multi-architecture **Docker** builds, enabling consistent daily releases
- Engineered **Grafana k6** framework measuring throughput, latency, and SLA compliance, achieving **4x** faster load testing

Ross Video Ltd. September 2025 – December 2025
Software Engineer Intern Ottawa, Ontario, Canada

- Developed video validation framework using **Java/Selenium/Maven** with **10+ page models** and reusable **TestNG** components
- Refactored legacy automation framework to **Java 14+**, reducing code duplication by **40%** and cutting test execution time by **30%**

Nokia January 2025 – August 2025
Software Engineer Intern Ottawa, Ontario, Canada

- Engineered unified **Python** validation interface replacing legacy framework for 800G optical systems, reducing test setup time by **70%**
- Migrated **50+** legacy **Perl/TCL** test modules to Python, boosting test speed by **25%** and enabling reuse across **3+ product lines**

Carleton University September 2024 – December 2024
Undergraduate Teaching Assistant Ottawa, Ontario, Canada

- Facilitated weekly labs for **300+ students**, teaching **Python** and data structures, resulting in **27%** higher grade averages

Projects

ShaghalnyShokran – AI Resume Reviewer (5000+ users) [Metrics](#) | [Website](#)
Python, Flask, PostgreSQL, SQLite, Redis, Google OAuth, Anthropic APIs, Gunicorn + Gevent, Railway, Google Analytics

- Built AI resume analyzer serving **5000+ users** with real-time streaming, ATS scoring, and fine-tuned prompts across flagship models

Meeting Voice Agent - YCombinator Hackathon (Summer 2026) [GitHub](#) | [Live Demo](#)
Python, TypeScript, Next.js, React, FastAPI, Pipecat, Anthropic Claude SDK, Deepgram, Playwright, Docker

- AI agent that joins Google Meet, transcribes in real time, talks back to participants, and auto-extracts tasks & notes into an Obsidian vault

Leadership

Computer Science Content Creator | [Instagram](#) | [Tiktok](#) April 2022 – Present
elcanadawy1

- Created content on **data structures, algorithms**, and **career development** for a community of aspiring software engineers
- Grew channel to **70K+ followers** in under 3 years, averaging **4.25M monthly impressions** with top post reaching **1.8M** views

Education

Carleton University **Expected Graduation: April 2027**
Bachelor of Engineering (B.Eng.), Computer Systems Engineering, GPA: 3.7/4.0 Ottawa, Ontario, Canada

- Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming, Embedded Systems, Operating Systems