Rami I. Ibrahimi

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Education

Columbia University Engineering AI Bootcamp New York, NY

Certificate in Artificial Intelligence and Machine Learning, June 2024

* Key skills: Python, Pandas, TensorFlow, Keras, Scikit-learn, NLP, Computer Vision
* Projects: Developed a sentiment analysis model using NLP techniques; built a convolutional neural network for image classification; analyzed machine failure data using multivariate analysis to identify key contributors

University of Virginia Darden School of Business Charlottesville, VA

Master of Business Administration, May 2019

* GMAT: 720
* Darden Foundation Scholarship
* Clubs: Consulting, Technology, Finance, Adam Smith Society, and Soccer

University of Jordan Amman, Jordan

Bachelor of Science in Mechatronics Engineering, Jan 2013

* Volunteer lecturer for Assembly & Microprocessors and Design of Embedded Systems classes

Experience

2018-2023 Google LLC

Product Operations T/ Program Manager – Phones (2019-2023) Mountain View, CA

* Managed oversees third party team of data scientists to deliver machine learning predictive models for return rates & manufacturing cell qualification resulting in reduction of 15% in qualification costs
* Created and executed new process for management of OpEx product costs in tandem with cross-regional team resulting in $3.5 million and $7 million in savings for Pixel 2020 and Pixel 2021
* Drove product headcount resource management for 8 Pixel devices from concept through end of life
* Managed non-device costs for Wearables business unit totaling $150 million annually
* Led early engagement Product investigation and feature definition for a new segment Pixel device

Hardware, Product Operations MBA Intern – Phones (Summer 2018) Mountain View, CA

* Designed and implemented new process for Inventory Management Forum for next-gen flagship Pixel phones resulting in complete automation of the process and 80% reduction in work load
* Established standard Key Part Release and Master Production Schedule model and input templates
* Completely revamped Clear to Build management process leading to strategic SKU-level visibility

2013-2017 Philip Morris International

Operations Planning Analyst (2015-2017) Izmir, Turkey

* Selected out of 50 candidates for leadership development assignment to the Turkish affiliate, the cluster head for EEMA region and the largest CPG in Turkey
* Directed cross-functional domestic and international project team in successful resolution of a defective company-wide data mining and reporting tool in support of 40 production line operations representing annual volume of 70 billion sticks
* Led cross functional effort across five teams to successfully launch the first product export project for 23 new products across eight new African markets representing 15% of annual volume
* Supervised the operations team for the revamp of seven strategic products including Marlboro and L&M brands achieving 100% hit rate for in-market-sales timeline requirements

Process Engineer (2014-2015) Amman, Jordan

* Led two five-person teams on two production facility operations improvement projects setting four new all-time records and achieving recognition for two key performance indicators
* Initiated factory inventory management and categorization process for spare parts and raw materials resulting in the reduction local spare parts inventory by $1 million representing 40% of total inventory; received Philip Morris International Above and Beyond the Call of Duty award

Electrical Maintenance Engineer (2013-2014) Amman, Jordan

* Designed and installed of track and trace weight measurement system

Independent AI R&D (Jan 2023 – Present)

Adaptive Document Ingestion & NLP Agent (Mar 2025 – Present)

Python, spaCy, PyTorch, Docx/PDF Parsing, Zero-Shot Classification, Stanza, Leiden Clustering, NER

* Built a retrieval-augmented text generation platform that ingests and organizes diverse text documents (PDF, DOCX, essays, etc.) for clearer, more accurate analysis.
* Developed a flexible parsing pipeline using zero-shot classification, NER, and Leiden-based clustering on Stanza embeddings, improving retrieval precision and reducing token consumption
* Implemented agent-based orchestration to autonomously produce context-rich, domain-specific summaries and outputs.
* Refined chunking strategies to preserve context across large documents, reducing manual data processing and enhancing readability.

Auto Transcribe and Translate (Mar 2024 - present)

Python, NLP, Jupyter, spaCy, pydub, PyTorch, OpenAI API, Google STT

* Developed an advanced tool converting spoken language in videos into written subtitles in any desired language
* Achieved a Word Error Rate (WER) of 5%, improving transcription accuracy by 20% over baseline models.
* Leveraged Google’s Chirp models and OpenAI’s Whisper for broad language coverage and high accuracy, implementing DTW (Dynamic Time Warping) for effective subtitle alignment and consolidation
* Implemented backend AI prompting techniques to refine transcriptions, reducing errors by 15% and enhancing clarity and readability.

GPT Interface (Jun 2023 - present)

Vue.js, Flask, FastAPI, Webpack, Pydantic, SQLite, SQLAlchemy, Poetry, OpenAI API, Gemini API

* Built a full-stack AI-powered application integrating GPT models using OpenAI and Gemini APIs.
* Focused on self-education and skill development, mastering end-to-end development from frontend (Vue.js) to backend (Flask, FastAPI, SQLAlchemy)
* Implemented caching with Redis, reducing API response latency by 40% and decreasing server load by 30% for efficient model response handling and scalability.

Battery Management System (Jan 2023 - Jun 2023)

Python, C, STM32, ADC, FRAM, Wi-Fi, Kalman Filter, Active Cell Balancing

* Designed a BMS for a 10S3P battery pack utilizing Epoch 21700 cells with active cell balancing and advanced protection mechanisms, increasing battery life by 20% and reducing cell imbalance by 25%.
* Developed a hybrid memory management system using the MCU flash, FRAM, and an SD card to manage high-frequency data logging and efficient communication to cloud servers
* Optimized the system for real-time data handling, advanced cell protection, and wireless updates, improving overall system efficiency by 30% and reducing maintenance time by 40%.

Additional Information

* Dual Citizenship: United States & Jordan
* Bilingual proficiency in English and Arabic, and basic proficiency in Turkish
* Soccer midfielder & mountain biker, interested in post-classical history and Oxford Union debates
* PEARSON certified Smartphone developer
* Accidentally appeared in the background of a romantic scene of a Turkish Soap Opera