RAMI I. IBRAHIMI

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Certified AI professional with an engineering background and an MBA, transitioning from product operations to machine learning operations and engineering. Hands-on experience in building predictive models, big data manipulation, and managing cross-functional teams

TECHNICAL SKILLS

- *Programming Languages:* Python, JavaScript, SQL, C
- *Machine Learning:* TensorFlow, Keras, Scikit-learn, PyTorch
- *Data Science:* Pandas, NumPy, Matplotlib, Jupyter
- *Cloud Platforms:* AWS (SageMaker, EC2), Google Cloud
- *DevOps & Tools:* Docker, Git, Kubernetes, Vue.js

PROFESSIONAL EXPERIENCE

Google LLC **2018-2023**

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

- Managed overseas 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 respectively
- 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 devices 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 restructured Clear to Build management process leading to strategic SKU-level visibility

Philip Morris International **2013-2017**

Operations Planning Analyst (2015-2017) **Izmir, Turkey**

- Selected out of 50 candidates for leadership development assignment to the Turkish affiliate, the cluster head for EMEA 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 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 inventory by $1 million representing 40% of total inventory; received Philip Morris International Above and Beyond the Call of Duty award

Electrical Engineer (2013-2014) **Amman, Jordan**

- Designed and installed track and trace weight measurement system

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: Awarded merit-based scholarship recognizing academic excellence
- Clubs: Consulting, Technology, Finance, Adam Smith Society, and Soccer

University of Jordan **Amman, Jordan**
Bachelor of Science in Mechatronics Engineering, Jan 2013

- Key skills: Embedded Systems, Microcontroller Programming, Assembly Language, Robotics
- Volunteering: lecturer for Assembly & Microprocessors and Design of Embedded Systems classes

SELECTED TECHNICAL PROJECTS

Auto Transcribe and Translate (Mar 2024 - present)
Python, NLP, Jupyter, spaCy, pydub, PyTorch, OpenAI API, Google STT API

- 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, Redis, 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 & PROFESSIONAL DEVELOPMENT

- 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