HARDIK SANGWAN

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Experience

Sept 2024 - **Backend Developer & ML Engineer** London, UK
Exabler

Architecting and developing a cloud-agnostic AI driven data processing pipeline. End-to-end development, from model selection & experimentation to deployment of a comprehensive ML solution

- Leveraging open-source LLM technologies with continuous assessment and online optimisation
- Using containerised micro-services, infrastructure-as-code principles, and CI/CD pipeline for builds, tests and deployment
- Accommodate diverse data ingestion sources and output interfaces
- SPA for secure data handling, visualisation and real time operations

Apr 2020 - **Product Engineer II** Atlanta, USA
Nov 2022 GreenWave Electronics

- Led successful cross functional engineering projects encompassing Robotic Process Automation, Automated Image Analysis and Electronics Testing, and Inventory Management using IoT & RFID.
- Projects created substantial increases in production capacity & quality and reductions in costs and returns.
- Architected and implemented highly scalable distributed cloud applications on AWS.
- End-to-end ownership of internal product suite built to support Manufacturing and Testing Operations.
- Mentored & advised ~10 Junior Engineers, Technicians, Testers, and Interns

Jun 2019 - **Co-Founder/Software Developer** Atlanta, USA
Aug 2019 Luddite Tech, Georgia Tech Create-X Summer '19 Incubator Program

- Built prototypes for modelling password guess-ability through an RNN using Keras in Python.
- Initiated customer discovery, business plans creation and pitched to possible investors.

Aug 2016 - **Engineering Apprentice** Atlanta, USA
May 2018 The Home Depot

- Enabled supplier negotiations by conducting thorough product teardowns and analysing costs.
- Secured $2.5 Million in savings for a product procurement initiative through my cost analysis.
- Improved communication efficiency and data-driven insights with viz. solutions built on Tableau.
- Performed benchmarking, industry standard testing and development for improved ratings.

Education

Sept 2023 - **King's College London** London, UK
Sept 2024
- **MS in Engineering with Management**
  - Dissertation: Explainable/Interpretable AI for Medical Diagnosis (Skin Cancer)
  - Project Management, Product Management, Operations Management
  - Systems and Controls, Machine Learning, Intelligence and Autonomy, Deep Learning

Aug 2014 - **Georgia Institute of Technology** Atlanta, USA
Dec 2019
- **BS in Computer Science and Mechanical Engineering**
  - Data Structures, Algorithms, Machine Learning and Applications, System Design, Modelling
  - System Dynamics & Mechanics, Manufacturing & Design, Thermodynamics, Statistics
- Research: Humour Genome Project: Humour classifiers & recommendation systems using NLP
- Research: Bio Robotics Lab: Haptic assist device for industrial assembly for General Motors
- Organisations and Employment: HyTech Racing, RoboJackets, Visualisation Developer

Skills

Tech Python, AWS: Certified Pro Solutions Architect, SQL, Vue.js, Docker, FastAPI, TensorFlow, LLMs

Volunteer AI for Good (FruitPunch.ai) - Product Owner in Data & Modelling for Carbon Emissions Estimation