Melanie Preen

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Education

2020–2023
The University of Manchester
BSc Information Technology Management for Business

Second Class, Division One

Year 1: Integrative Team Project 1

- Led as a Project Manager for a team of 4.
- **Conducted interviews** with Relationship Managers and the Head of IT UK Private Bank at Credit Suisse.
- **Identified** problems to deliver solutions to **high precision** requirements.
- **Prototyped** an app for relationship managers using JustinMind.
- **Programmed** the app using **ASP.NET, Xamarin** languages and **C#** following agile development.
- **Presented** in front of 100 employers and awarded 1st place.

Year 2: Integrative Team Project 2

- **Collaborated** and led as a Data Analyst for a team of 5.
- **Analysed** P&G Customer feedback by **data mining** on SAS Enterprise Miner.
- **Innovated** an **Augmented Reality (AR)** app using JustinMind to solve the main problems identified in the data mining.
- Presented in front of **20 employers and 100 students**, the AR solution alongside the dashboard of data mining techniques including text parsing.
- Achieved **Best Student Award** awarded by P&G employees for public speaking ability.

2003 – 2020
British International School Phuket Thailand

- IB Diploma: 37 out of 45 Points (7,6,5 HL) including English, Business, and IT.
- IGCSEs: 9 A*-C including Mathematics, Physics, IT.

Awards & Certifications

- 🏆 AMBS Social Responsibility Scholar
- 🏆 Code First Girls Introduction to Python
- 🏆 Launch X Innovation Award SEA
- 🏆 CSM Introduction to Fashion Design Course
- 🏆 Munsell Color System Painting Course
- 🏆 CMA Practitioner: Reiki Level 2 and Sound Healer

Additional Skills

- **Technical Skills:** Python, SQL, React.js, SAS Enterprise Miner, Tableau, Arduino, 3D Printing, UX Design, R
- **Tools**: MIT App Inventor, Justinmind, Adobe Suite
- **Languages**: Native English, Intermediate Thai and French

Technical & Research Experience

07.2023 – Current
Bank of America
Technology Analyst

- Developed end-to-end **automation** solutions for users and brokers by integrating legacy systems with **Python** and **SQL**, transforming manual workflows into tasks viewable in **seconds**, improving operational efficiency.
- Translated **FCA regulations** into system requirements to develop test cases and diagnose **cross-system dependencies** without disrupting critical financial operations.
- Led the **Women's Developer Group** in Bromley, spearheading initiatives to teach **MIT App Invento**r to over 50 youth (ages 8–16), fostering early **engagement** in **creative** technological **problem-solving.**

12.2022 – 05.2023
University of Manchester
Research on ML Bias Impact & Minorities

- Conducted **qualitative research** with **16 participants** from underrepresented backgrounds to analyze how gender, ethnicity, and lived experiences influence trust in **machine learning (ML)** systems.
- Identified critical gaps in **stakeholder accountability**, advocating for **ethical AI benchmarks** that prioritize transparency, inclusivity, and minority representation.
- **Presented** findings to **Jaguar Land Rover** and **Bank of America** Women Developer Groups, raising awareness of **ML bias** and providing actionable recommendations for developing **trustworthy AI systems**

06.2019 – 12.2019
BISP 3D Printed Prosthetic Hands Club
Co-founder

- **Designed** and **3D-printed prosthetic** hands using open-sourced **CAD** files to reduce inequalities in **Southeast Asia.**
- Created low-cost, scalable **prosthetic** hands for a young girl with amniotic band syndrome, achieving **real-world impact.**
- Achieved recognition through **media coverage** at **local, national, and regional levels**, showcasing **tangible** technology solving **critical societal issues.**

10.2018 – 03.2019
Launch X Entrepreneurship Program
Representing Thailand

- Created a **biomimicry fish** to capture **microplastics**, combining **Arduino**-based systems and **3D printing** for **environmental sustainability**.
- **Presented** the **prototype** to **100+** attendees at a **regional innovation competition,** earning runner-up recognition for **innovative, impact-driven solutions.**
- **Collaborated** with a **multidisciplinary** team of 3 under mentorship.