AYAN AHMED

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Currently, leading the maintenance and white-labelling of the foot scanning app I developed for Tripal. Seeking a role that will test and develop my skills by virtue of working with a larger team focused on delivering products that enhance the end user experience.

EXPERIENCE

Tripal Group — **Wellingborough, UK**
Digital Product Manager — **2020 - Present**

- Leveraged the shoe sizing app's ability to influence end user experience in a B2B industry to create a subscription based revenue stream for Tripal and secure new high value distributors that generate 15% of current revenue
- Leading the design, marketing and technical sales program for Tripal's new app data driven footwear line, expected to create over 20% in additional revenue over the next 3 years

Tripal Group — **Wellingborough, UK**
React Native Developer & 3D Printing Engineer — **2017 - 2020**

Delivered an end-to-end system which captures and utilises user data to create personalised footwear by leveraging 3D printing.

Mobile App for Foot Data Capture

- Created a digital presence for Tripal, by developing a cross-platform mobile app to capture customer foot data as opposed to setting up physical 3D scanning stations across the UK, saving over £200,000 in equipment, training and logistical costs
- Developed the app from scratch with minimal coding knowledge; primary technologies used were: React Native with Expo, JavaScript, HTML and CSS for the app's User Interface
- Utilised Python for the app's computer vision based image processor that extracts relevant foot dimensions and contours
- Introduced and implemented Google Cloud Platform (GCP) and Firebase for the app's backend requirements

Personalised Footwear (insole) Design

- Conducted studies to find correlations between perceived underfoot comfort and relevant biomechanical parameters
- Data from these studies have been coupled with those captured by the app to provide accurate footwear sizing recommendations and manufacture 3D printed insoles that generate personalised comfort and performance
- These insoles will account for over 70% of the footwear accessories revenue within the next 3 years

Student Project Supervision

- Acted as the key industrial mentor for individual and group student projects stemming from my KTP, across different academic departments at the University of Sheffield

Sheffield Undergraduate Research Experiences (SURE) Scheme — **Sheffield, UK**
Summer Research, Intern — **2015**

- Discovered a critical point of inflection in the coefficient of friction (CoF) values at low pressures, when investigating the CoF between tennis shoes and different playing surface interfaces

EDUCATION

The University of Sheffield — **Sheffield, UK**
MEng in Mechanical Engineering, First Class Honours: 74% — **2013 - 2017**

Final Year Project: Investigation of the impact and penetration resistance of current ballistic materials, when treated with nano-particle based shear thickening fluids (STFs) revealed that incorporation of STFs does not improve performance.

- Improved delivery of the 1st year Mechanics module through tutoring and acting as a liaison between staff and students as a peer assisted study session (PASS) leader; lead and trained the new cohort of PASS leaders as an advanced PASS leader
- Supported first year international students with adjustment to the new education system and culture as a Sheffield Mentor

La Martiniere for Boys — **Kolkata, India**
Indian School Certificate (ISC) Examinations: 96.5% — **2001 - 2013**

SKILLS AND CERTIFICATIONS

- **Coding**: JavaScript, React Native, Expo, Python, OpenCV, Google Cloud Platform, Google Firebase
- **Engineering Tools**: ANSYS, Fusion360, SOLIDWORKS
- **Professional Certifications**: PRINCE2 Foundation, AgilePM Foundation, AgileBA Foundation, Six Sigma Yellow and Green Belt
- **Languages:** Fluent in English and Bengali, conversant in Hindi

ADDITIONAL INFORMATION

- **Volunteer, Splash for Kids, Kolkata, (2014, 2016):** Facilitated the learning of Science, Mathematics and English for a group of underprivileged children with learning disabilities
- **Faculty Undergraduate Scholarship, (2013 -2017):** Received this every year for outstanding academic achievement