Thushaan Rajaratnam

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Experience

06/18 – 10/20   **Co-Founder/CTO – EMIT ENTERPRISES LIMITED (Seed round funded start-up)**

- Successfully raised £150k from angel investors for time tracking app that automated lawyer's timesheets.
- Developed a deep level computer (keyboard and mouse input) usage tracker leveraging Windows Hooks.
- Worked with a large AWS tech stack: streamed data from desktop app with Kinesis Firehose, processed data with Lambdas, stored within DynamoDB and S3.
- Implemented machine learning methods (NLP) for classification of desktop activities.
- Led team of interns for development of components of the tech stack.

06/18 – 06/19   **Kickstarter Creator – Productivity Smartwatch (Funded start-up project)**

- Raised £13,000 with 180 backers and successfully delivered the crowdfunding campaign.
- Designed, prototyped and beta-tested the UI and software for a touchscreen smartwatch.
- Produced technical specifications and internal design for manufacturing of the smartwatch.
- Negotiated partnership with manufacturers in Shenzhen for creation of the smartwatch.
- Marketing - designed website with Bootstrap, promoted social media, shot photos, videos.

08/13   **Design Assistant – Frazer-Nash Research, Camberley**

- Created solid models and industry standard orthographic engineering drawings for a design team.
- Edited models to comply with design standards. Simulated numerous failure methods including load yielding, fatigue and temperature failure. Examples of models: car engine plate and solar panel arrays.
- Modelled (CAD) and tested (FEA) company's designs to check for failures on SolidWorks.
- Financially rewarded for good performance to help with PC related ventures (e.g CP4U – below).

07/12 – 10/14   **Co-Founder/CEO – CP4U (Computer Customisation Company)**

- Founded local company aimed at building and optimising tailor-made computers.
- Sold personalised computers to customers averaging a profit per sale of £100.
- Developed knowledge of part coordination and became proficient at building computers.
- Used a website CMS (WordPress) to develop website for business.

Projects

05/20 – Present   **Freelance App Developer –Brandsmiths, London**

- Developed cross-platform (Web/iOS/Android) engagement survey app using Nativescript for law firm.
- Collaborated with managing partner of the firm to make app for better informed appraisal decisions.
- Leveraged WebViews to keep shared codebase for major UI components.
- Paid for by the firm, currently in use with potential for further expansion and work.

Education

10/14 – 06/19   **MEng Mechanical Engineering – Imperial College London**   **(2:1)**

- Key Modules: Embedded C for Microcontrollers, Machine System Dynamics, Advance Control, Transmission Technologies, System Design and Optimisation, Entrepreneurship, Design Led Innovation.
- Designed, manufactured, and tested a robotic arm unit that can be controlled using an Xbox Kinect.
- Programmed a pathfinding robot with embedded C to located targets and return using IR sensors.
- Final Year Project: Developed undergraduate project allocation website for departmental use.
- Created the first continuous variable transmission implemented in the Imperial Electric Scooter Project. The project included solid models, engineering drawings and a written report.

09/07 – 07/14   **Secondary Education – Hampton School**

- A-levels: Mathematics (A*), Physics (A*), Further Mathematics (A), Chemistry (A) and AS Art (A).
- Special Award for 100% in AS Art and Silver Award in the UKMT Senior Maths Challenge.
- 10 GCSEs: 8 A*s and 2 As.

Skills

- **Expertise:** App development, UX/UI design, Project management, Data Processing
- **Programming Languages**: C#, C/C++, CSS, HTML, Java, JavaScript, Kotlin, MatLab, PHP, Python, SQL, Swift
- **Technologies:** Git, Node.js, Laravel, Vue.js, Sass, Unity, Android, AWS, GCP
- **Software:** SolidWorks, Adobe CC (Photoshop, Illustrator, Premiere Pro, After Effects)