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Education

**Carnegie Mellon University 2020 – 2023**

B.S. Information Systems, minor in Business Administration, Human-Computer Interaction

* Relevant Coursework: Fundamentals of Programming, Data Structures, Database Design, Application Development, Discrete Mathematics, Statistics, Social Psychology, Software Engineering, Microeconomics
* Clubs and Societies: CMU Undergraduate Entrepreneurship Association – Board of Directors

CMU Business Technology Group - Member

Project IRIS – Navigation Strategy Lead

Lunar Gala – Runway Model

**Wiley Certified Data Analyst: Machine Learning** **2020 – 2020**

* Proficient in a wide suite of machine learning methods including Regression, Neural Networks, Decision Trees, Support Vector Machines and Sentiment Analysis using R

Experience

**Navigation Lead Dec 2022 – Present**

Project IRIS (World’s First Nano-sized Lunar Rover), Pittsburgh PA

* Led end-to-end navigation procedure development for the world’s first nano (shoebox-sized) rover to traverse the moon.
* Modelled terrain, developed wargaming scenarios, used game theory and strategy to procedurise end-to-end pathfinding for crater avoidance, in-shadow movement, and obstacle avoidance.
* Projected to be the first human ever to navigate a nano-rover outside of Earth and the first Singaporean ever to navigate a lunar vehicle (in May 2023)

**Summer Associate May 2022 – Jul 2022**

Boston Consulting Group, Singapore

* Core member of 6 person team developing strategies to optimize $13 billion cost base of one of the world’s largest food ingredient players
* Led, brainstormed and conducted insight-gathering interviews with ex-CFOs, GMs of world Top 10 food ingredient firms, and identified high-impact competitive advantage levers for client
* Spearheaded module on generating recommendations for achieving total cost transparency for >30 Business units across all key business functions, which were presented to client’s C-suite

**Blockchain Product Manager Apr 2021 – Dec 2021**

CMU BoLT Project and ZUZ LLC. ,Pittsburgh PA

* Managed team of 8 undergraduates and graduates in ideation and testing of novel business models for the application of a trust-based payment and lending platform to allow SMEs to access cheap capital.
* Led initial pilot of technology at East Liberty, Pittsburgh and managed end-to-end deployment process
* Developed and executed strategy for integration of payment gateways into platform, empowering real-world MVP deployment

Leadership

**Founder & CEO Jul 2020 – Present**

Nile (We’re like Uber, but for delivery addresses)

* With sights on eradicating America’s porch piracy pandemic, founded web and mobile platform to connect residents in high-crime neighbourhoods with merchants to accept packages on their behalf, preventing theft of unattended packages
* Managed end-to-end product strategy for development of React Native MVP (responsible for developing wireframes, ERD diagrams, user journey modelling and recruitment of >10 SDEs and front-end designers)
* Led and executed year-long in-depth market landscape study across Nile’s 3 primary use-cases
* Currently spearheading MVP development and deployment in target locations within Pittsburgh, PA

**3rd Sergeant and Section Commander Jan 2018 – Nov 2019**

38th Battalion, Singapore Army Combat Engineers (Armoured)

* Led and developed fitness, discipline and regimentation in 7 soldiers under my charge
* Trained proficiency in live demolitions, minefield clearing, armoured vehicle management and outfield warfare strategies.
* Led combined section of soldiers in bi-lateral outfield exercises with the Royal Brunei Armed Forces

Awards and Achievements

**BrainHack 2020 – Defense Technology Singapore**

Top 8 Finalist among >50 teams

**Blockchain Won’t Save The World**

Guest Speaker – Using Smart Contracts to empower SMEs to raise capital

**A\*STAR JC Science Award**

Top 150 STEM students in country

**Advanced Science Program** – 15 handpicked from cohort of 400

**Alliance-Française de Singapore: French Alumni Award** - Top 20 French students in country

**United Kingdom Int Math Challenge**

2 X Gold winner

Projects

**SafeVote:**

Worked as project manager to develop a web-based crowd density management system for businesses and Singapore general elections during COVID-19.

**Search & Rescue**:

Developed arcade-style Python game using TKinter where player rescues victims of a shipwreck from sharks and transports them to a rescue helicopter or lifering.

Programming

Python | R | Java | SQL | HTML | Javascript | CSS

Publications

**International Researchers’ Club – Science, Engineering and Technology Journal 2017**

Corresponding author, Peer-reviewed

Paper title: *Application of Artificial Intelligence to Bronchiectasis Patient Clinical Data Analysis*

**European Respiratory Society 2017**

Co-authored research abstract to European Respiratory Conference 2017.

Abstract Title: *High frequencies of Aspergillus colonization and associated inflammation in stable Bronchiectasis*

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TEJAS VENKATESH

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