Madhav Singhal

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Experience

QUANTITATIVE RESEARCH ASSISTANT, PHYSICS, WESTERN UNIVERSITY– 2018-PRESENT

• Performed modelling, regressions and simulations in Python, Maple on experimental data of nano materials

• Presented a poster on our findings at UWaterloo's International Symposium on Nanotechnology

PRODUCT MANAGER, MOUVE – 2019

• Managed the end-to-end for product roadmap; facilitated sprints, strategized growth, analyzed user behaviour, and wrote user stories while also developing features for a small startup team of 6

• Lead sprints in Scrum Agile development approach by writing stories to add features, making tickets for quality assurance and bug fixing, and also improving upon UX of existing feature sets

• Devised and executed a growth strategy based on custom analytics with Firebase to achieve 25% 30-day user growth in 1 month. Implemented user tracking to iterate over UX and optimize interface content, added features based on user requests, marketed using influencers and promotional codes, and ultimately added support for foreign languages after analyzing highly positive international data metrics

Projects

DOLPHIN – 2018

• Awarded Major League Hacking's award for Best Hack Using Payments API– a Data-Over Sound e-wallet

• Conceptualized and built the web application to conduct payments using only microphones and speakers

Skills

• **Project Management** (Asana, Notion, Scrum, Waterfall, User Stories, Analyze user data with SQL queries)

• **UI/UX/Product Design** (Adobe XD, Adobe Photoshop, Adobe Illustrator, InDesign, Google Material Design)

• **Software Engineering** (Python, Java, JavaScript, Swift, C, Django, Node, Firebase, Flask, Postgres, MongoDB)

• **Data Science** (Monte Carlo methods, Time domain analysis, Deep Learning)

• **Statistical Procedures** (Linear and nonlinear regressions, Probability distribution fitting)

Education

B.S. COMPUTER SCIENCE, B.A. PHILOSOPHY, WESTERN UNIVERSITY – 2021

• Founded Programming club to help interested students learn coding skills. Achieved 219 sign-ups in 1 year. Designed curriculum and teach weekly sessions on programming basics and data science

• Conducted a coding workshop in UWO's Women in Science club for young women in STEM

Personal

• Reading, love playing soccer, playing piano, and quantum computing.