Manish Balamurugan

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SUMMARY

Interested in Data Science, Machine Learning and AI.

Co-founded Hyphora, a tech startup focused on student development. Authored & published 2 papers on Machine Learning. Experience with software development and data analysis. Worked with Python, Java, JS, and C++.

Looking for internship opportunities in Tech Development/Consulting & would love to contribute from my experience.

EXPERIENCE

Undergraduate Researcher, Manbachi Lab @ Johns Hopkins University *Oct 2020 - Present*

- Worked with a team of industry researchers to develop medical solutions powered by machine learning
- Published as a First Author in Medical Imaging 2021: Ultrasonic Imaging and Tomography and Frontiers in Biomedical Devices.

Founder, Hyphora *Sep 2020 - Apr 2021*

- Tech startup created to enhance the education and research pursuits of high school and college aged students throughout the USA.
- Pre-seed funding discussions with Reach capital. Gathered 3,000+ signups for the products beta launch via social media campaigns.
- Developed the online platform using Google's Flutter SDK and Firebase along with HTML/CSS and JS.

Undergraduate Researcher, Walsh Lab @ University of Virginia *Mar 2021 - Present*

- Worked as a Data Analyst in the Walsh Lab & created reports and analyzed healthcare data from UVA's School of Medicine.
- Performed in-depth data validation on data recovered from genetic mapping projects in the lab using R and Python.

SWE Intern, Keva Health *Dec 2020 - Mar 2021*

- Worked with Keva's Product Management team on development tasks related to Keva's mobile application
- Used Flutter and Firebase to create a direct-to-physician marketing solution. Used Swift and Kotlin for development tasks for the Keva Health App.

Data Intern, Simmer (YC19) *Jun 2019 - Sep 2019*

- Worked as a Data Intern at Simmer (YC19). Developed web-based algorithms and data processing techniques.
- Developed a web-scrapper built on selenium (python) to scrape menu items for various restaurants based in the Bay Area.

PAPERS ON MACHINE LEARNING

[1] USDL: Inexpensive Medical Imaging Using Deep Learning Techniques and Ultrasound Technology

Developed a novel model that employs deep learning algorithms in order to reconstruct and enhance corrupted ultrasound images. First author acknowledgment.

[2] Automatic detection of cotton balls during brain surgery: where deep learning meets ultrasound imaging to tackle foreign object

Developed a machine learning powered pipe flow that allows for real time detection of cotton balls during neurosurgical procedures. First author acknowledgment.

EDUCATION

BA in Computer Science and Applied Statistics, Computer Science *Aug 2020 - Present*
University of Virginia

SKILLS

Programming Languages: Java, Python, C++, JS, HTML/CSS, Swift, R
Development Environments: Eclipse, XCode, VSCode
Libraries: Flutter, SwiftUI, Firebase, Gatsby, React, React Native, Expo, Angular

SELECTED AWARDS

International Science and Engineering Fair Finalist, Regeneron [2020]
Grand Prize at Fairfax County Science and Engineering Fair, Fairfax County Public Schools [2020]
First Place in Biomedical Engineering Fairfax County Science and Engineering Fair, Fairfax County Public School [2019]