

ARNAV NIDUMOLU

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST

Graduation'25

Relevant Coursework: Programming with Data Structures, Calculus II, Introduction to Linear Algebra

BASKING RIDGE HIGH SCHOOL, GPA 4.31/5

Graduation'21

SAT Superscore 1510/1600 with Math 800/800; SAT Chemistry 790/800; SAT Math 2 800/800

UDEMY COURSES

* Python & Ethical Hacking from Scratch * Machine Learning A to Z * Basic to Advanced Python

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Dart

Frameworks: Flask, Django, Scikit-learn, Pytorch, Keras, OpenCV, NLTK

Other Tools: Git, Docker, Jenkins, Travis, OpenShift, OpenStack, Bash Scripts

WORK EXPERIENCE & CONTRIBUTIONS

RED HAT, Boston, MA

Jun'19 – Aug'19 , Jun'20 – Aug'20

Research Intern, ChRIS Project (<https://chrisproject.org/about>)

- Aim to build a next-gen medical image processing platform using the compute infrastructure of MOC (Mass Open Cloud)
- Designed monitors with Jenkins to measure system performance and created controls for taking corrective actions
- Enabled a faster runtime for the Image detection Proof of Concept by exploiting GPU capabilities with Tensorflow
- Ensured scalable and reliable services by enhancing multithreading capabilities and identifying deadlock scenarios

FREELANCER.com, NJ

Apr'20 – May'20

Background Removal Service, Project ID: #25018158

- Automatically detects and removes the significant object from the picture using OpenCV image computations
- Deployed the service using Gunicorn on Digital Ocean

BUILD UMASS, Amherst, MA

Sep'21 – Current

Software Developer (<https://buildumass.com/>)

- Assisted a startup (Funnl) with building a web application that fosters deeper professional relationships and cultivates healthy habits in the workplace
- Enhanced overall workflow by enabling Docker container debugging and resolving crucial bugs
- Created Django unit tests to improve code coverage and validate additions to the code

INTERNATIONAL WEBINAR, Rustamji Institute of Technology, Gwalior, India

Sep'20

Attended by 60+ college freshmen and sophomores with average feedback of Good-Excellent.

- Presented on the topic "Application of Artificial Intelligence in daily activities" with a focus on:
 - Approach to building simple solutions & utilizing Artificial Intelligence
 - Applying Mathematics in Software solutions
 - Using Infrastructure available on the internet to build applications

HACKATHONS & PROJECTS

SMART NOTES

Presented at HackPHS (Awarded Best Cloud Hack); <https://arnavn101.github.io/smartnotes/>

- Creates concise summaries and fetches the main topics of the text by applying Google's Page Rank algorithm

PATH FINDER

Presented at HackWHS (Finalist); https://github.com/arnavn101/Path_Finder

- Uses artificial neural network to suggest an optimized college path for students based on their skills and academic record

COVID-19 CONTACT TRACING

<https://github.com/arnavn101/cotrackerApp> & <https://github.com/arnavn101/cotracker>

- Effectively "tracks" individuals' proximity to each other throughout the day in order to trace a potential virus spread
- Built a mobile app with Flutter and backend using Flask Web Framework