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Deployed Flask service using Gunicorn on Digital Ocean

**PRESENTED AT INTERNATIONAL WEBINAR**

**Sep’20**

*Rustamji Institute of Technology, Gwalior, India*

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

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Presented on the topic “Application of Artificial Intelligence in daily activities” with a focus on:

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Approach to building simple solutions & utilizing Artificial Intelligence

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Applying Mathematics in Software solutions

Automatically detects and removes significant object from picture using OpenCV and PyTorch Image Classification model

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*Background Removal Service, Project ID: #25018158*

**Apr’20 – May’20**

**FREELANCER**

Ensured scalable and reliable services by enhancing multithreading capabilities and identifying deadlock scenarios

●

Enabled faster runtime for Image detection Proof of Concept by exploiting GPU capabilities with Tensorflow

●

Designed monitors with Jenkins to measure system performance and created controls for taking corrective actions

*Presented at HackWHS (Finalist); https://github.com/arnavn101/Path\_Finder*

Using peripheral data, it builds a deep understanding of user’s interests beyond what is noticeable

●

Social media app that promotes in-person socialization based on shared interests and ML models

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*Presented at HackUMass; https://github.com/arnavn101/Coterie*

**COTERIE**

Suggests an optimized college path for students based on their skills and academic record with artificial neural network

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**PATH FINDER**

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

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

**SMART NOTES**

**HACKATHONS & PROJECTS**

Using Infrastructure available on the internet to build applications

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**TECHNICAL SKILLS**

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

**CERTIFICATIONS**

Relevant Coursework: Discrete mathematics, Computer Systems, Calculus III, Introduction to Linear Algebra

**Graduation’25**

**UNIVERSITY OF MASSACHUSETTS AMHERST, B.S. in Computer Science, GPA 4.0/4.0**

**EDUCATION**

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github.com/arnavn101

(973) 845-5265

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Next-gen medical image processing platform using the compute infrastructure of MOC (Mass Open Cloud)

*Red Hat, ChRIS Project (https://chrisproject.org/about)*

**Jun’19 – Aug’19 , Jun’20 – Aug’20**

**RESEARCH INTERN**

Matured engineering practices by enabling Docker container debugging and Django unit tests to improve code coverage

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Developed critical features of Email scheduling and Identity security

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Fueled startup (Funnl.co) by building a social platform that fosters deeper professional relationships

**ARNAV NIDUMOLU**

**Sep’21 – Current**

Technology solutions for non-profit and local businesses

*Build UMass (https://buildumass.com/)*

**SOFTWARE DEVELOPER**

**WORK EXPERIENCE & CONTRIBUTIONS**

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

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

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