

# ARNAV NIDUMOLU

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## EDUCATION

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

**Graduation'25**

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

## CERTIFICATIONS

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

## TECHNICAL SKILLS

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

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

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

## WORK EXPERIENCE & CONTRIBUTIONS

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### SOFTWARE DEVELOPER

Build UMass (<https://buildumass.com/>)

Technology solutions for non-profit and local businesses

**Sep'21 – Current**

- Fueled startup (Funnl.co) by building a social platform that fosters deeper professional relationships
- Developed critical features of Email scheduling and Identity security
- Matured engineering practices by enabling Docker container debugging and Django unit tests to improve code coverage

### RESEARCH INTERN

**Jun'19 – Aug'19 , Jun'20 – Aug'20**

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

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 faster runtime for 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

**Apr'20 – May'20**

Background Removal Service, Project ID: #25018158

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

- 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

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### 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](https://github.com/arnavn101/Path_Finder)

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

### COTERIE

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

- Social media app that promotes in-person socialization based on shared interests and ML models
- Using peripheral data, it builds a deep understanding of user's interests beyond what is noticeable