

# Arnav Nidumolu

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## Education

- University of Massachusetts Amherst** Amherst, MA  
*B.S. Computer Science (GPA 4.0)* Graduation '25
  - Relevant courses: Discrete mathematics, Computer Systems, Calculus III, Intro to Linear Algebra

## Skills

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

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

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

## Work Experience

- AuCode** Amherst, MA  
*Software Enginner Intern* Jun'22 - Aug'22
  - Streamlined DevOps workflow with Github actions, Amazon ECS, and Application load balancers.
  - Developed web crawling infrastructure with autoscaling capabilities using Redis message queues and Celery workers.
  - Automated migration from RDS PostgreSQL to Amazon S3 in parquet format.
  - Utilized Gensim/GPT3/Sklearn to train models for topic-modeling and NLP classification tasks.
- Build UMass** Amherst, MA  
*Software Developer* Sep'21 - Apr'22
  - Fueled startup (funnl.co) by building a social platform that fosters deeper professional relationships.
  - Built critical features of Email scheduling and Identity security.
  - Matured engineering practices with Django unit tests to improve code coverage.
- Red Hat** Boston, MA  
*Research Intern for ChRIS Project* Jun'19 - Aug'19 , Jun'20 - Aug'22
  - Designed monitors with Jenkins to measure system performance and created controls for taking corrective actions.
  - Enabled faster runtime for Image detection Proof of Concept with GPU capabilities of Tensorflow.
  - Ensured scalable/reliable services by optimizing multithreading and identifying deadlock scenarios.
- Freelancer.com** Basking Ridge, NJ  
*Project id: #25018158* Apr'20 - May'20
  - Facilitated detection and removal of significant objects from picture using OpenCV and PyTorch Image Classification model.
  - Deployed Flask service using Gunicorn on Digital Ocean.

## Hackathons & Projects

- Smart Notes** HackPHS  
*Awarded Best Cloud Hack* [arnavn101.github.io/smartnotes](https://arnavn101.github.io/smartnotes)
  - Creates concise summaries and fetches the main topics of the text with Google's Page Rank algorithm.
- Path Finder** HackWHS  
*Finalist* [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 networks.
- Quantify**  
*github.com/GreenPlanet-Capital/Quantify*
  - Performs technical analysis and backtrading for financial assets with Alpaca marketstore integration.