

Arnav Nidumolu

(973)-845-5265
arnav.nidumolu@gmail.com

github.com/arnavn101
linkedin.com/in/arnav-nidumolu

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 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
 - 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
 - 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 backtesting for financial assets with Alpaca marketstore integration.