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 the 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'20*
  - 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** Basking Ridge, NJ
  freelancer.com *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 backtrading for financial assets with Alpaca marketstore integration.