Arnav Nidumolu

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Education

- **University of Massachusetts Amherst** Amherst, MA
  B.S. Computer Science (GPA 4.0) *Graduation '24*
  - Relevant courses: Discrete mathematics, Operating Systems, Reverse Engineering, Computer Networking, Linear Algebra

Skills

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

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

- **Amazon** Seattle, WA
  Software Dev Engineer Intern *Jun'23 - Aug'23*
  - Improved concurrency limitations of AWS Control Tower control operations by 2.5x.
  - Implemented distributed queueing mechanism with scalability and fault tolerance.
  - Created load and integration tests to evaluate concurrency limits and response times.
- **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.
- **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.

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.