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 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'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 '19
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 '19
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 Mar '22
github.com/GreenPlanet-Capital/Quantify
– Performs technical analysis and backtesting for financial assets with Alpaca marketstore integration.