

Arnav Nidumolu

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Education

University of Massachusetts Amherst

Amherst, MA

B.S. Computer Science (GPA 3.976)

Graduation '24

- Relevant courses: Distributed Computing, Reverse Engineering, Networking, Machine Learning

Skills

Languages: Python, Java, C/C++, Rust, JavaScript/TypeScript, SQL

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

Other Tools: AWS, Git, Docker, MongoDB, Github Actions, Redis, Bash Scripts

Work Experience

Amazon

Seattle, WA

Software Development Engineer

Jul'24 - Current

- Onboarded security tests to meet authn and authz standards for AWS Control Tower APIs.
- Curated Athena queries and configured Lakeformation permissions for AWS Glue ETL workflows.

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.
- 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 take corrective actions.
- Ensured scalable/reliable services by optimizing multithreading and identifying deadlock scenarios.

Hackathons & Projects

Agora

May '24

github.com/CS520-news-aggregator/agora

- Leverages Google's Gemma LLM to provide users with news posts based on their preferences.

UMass UnBoxed

HackUMass '23

Awarded Best Web Hack

devpost.com/software/umass-unboxed

- Full-Stack platform built on Svelte, Django, and MongoDB for buying and selling goods on campus.

Smart Notes

HackPHS '19

Awarded Best Cloud Hack

devpost.com/software/smart-notes

- Creates concise summary of a website, video, or document using Google's Page Rank algorithm.