

Anish Laddha

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EDUCATION

Purdue University

Bachelor of Science in Computer Engineering, Minor in Mathematics

West Lafayette, IN

Aug. 2021 – May 2025

- Concentration in Artificial Intelligence/Machine Learning
- GPA(M): 3.73, Dean's List
- **Relevant Courses:** Data Structures, Artificial Intelligence, Natural Language Processing, Computer Security, Computer Networking, Unix/Linux Shell Scripting, Probabilistic Methods, Microprocessors and Systems, Signals+Systems

EXPERIENCE

Undergraduate Teaching Assistant

Purdue University

Jan. 2024 – Present

West Lafayette, IN

- Leading 30-student lab sessions ECE270: Digital Systems, fostering a collaborative learning environment and providing guidance on complex concepts.
- Conducting thorough grading of assignments, with expertise in circuit design and Verilog coding.
- Developing a scalable Python and C-based autograder with plagiarism detection, optimizing the grading process.

Software Engineer Intern

Visa

May 2023 – Aug. 2023

Foster City, CA

- Accelerated development of a big data application on the AI Platform team, slashing processing time by 75%.
- Interfaced with Hadoop MapReduce and Apache Spark for real-time transaction data retrieval and processing for the AI team.
- Optimized resource allocation through gradient descent and machine learning models, reducing runtimes by 30% and reducing expensive compute resources from 24 core-hours to 15.
- Ensured scalability to manage 100+ requests per second, guaranteeing smooth operations during peak demand.
- Developed a comprehensive Flask(Python) and MySQL app for intuitive stakeholder insights and data visualization.

Software Engineer Intern

Visa

May 2022 – Aug. 2022

Austin, TX

- Built a REST API from scratch using MySql, Java, SpringBoot, and Autowired on an Apache server, reducing project enrollment/update times for CI/CD by approximately 1 hour per project.
- Integrated the API with existing infrastructure supporting 20+ critical applications across the company.
- Addressed 21 high-level security issues in the Lighthouse test automation framework in Python, protecting against command line injection and file traversal attacks.

PROJECTS

Uber/Lyft Price Comparison App | *Swift, Xcode, Cocoapods, Google Maps/Apple Location APIs*

- Developed a Swift mobile app that utilizes Uber and Lyft APIs to provide real-time ride cost estimates for multiple nearby locations.
- Implemented a gradient descent algorithm to find the most cost-effective ride location, saving users money.
- Designed an intuitive user interface with SwiftUI for a seamless user experience.

Spotify to Apple | *Python, PyQt5, Spotify/YouTube/Apple Music APIs*

- Created a cross-platform desktop application with PyQt to download Spotify playlists to Apple Music for free.
- Implemented multithreading to reduce download/editing time by approximately 80% and achieved a conversion rate of about 3 songs/second.
- Aggregated song metadata from Spotify and YouTube APIs and edited audio files using eyeD3.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Swift, Matlab

Frameworks/Technologies: Flask, Django, MongoDB, PyTorch, Matlab, Shell scripting, Springboot, Embedded, STM32, Apache Spark, Hadoop MapReduce