ANISH LADDHA

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Education

West Lafayette, IN   **Purdue University**   **Aug 2021 - May 2024**

- Bachelors of Science in Computer Engineering, Concentration in Artificial Intelligence and Machine Learning
- GPA: 3.54; Dean's List and Semester Honors

Experience

Software Engineer, Intern   **Visa Inc.**   **May 2022 - Aug 2022**

- Designed and Created a REST API from scratch using MySql, Java, SpringBoot, and Autowired on an Apache server, and reduced project enrollment/update times by ~1 hour per project
  - Integrated with existing infrastructure supporting 20+ critical applications across the company
- Addressed over 20 high level security issues in the Lighthouse test automation framework in Python
  - Protected against command line injection and file traversal attacks

Software Engineer, Intern   **Impressico Inc.**   **July 2020 - Aug 2020**

- Analyzed millions of time series data points of heating, lighting, motion information for Aramark buildings with large energy consumption (i.e. corporate offices and skyscrapers)
- Used Python(pandas, numpy, matplotlib) to clean, process, and plot/examine data, and then ran regression tests to create predictive models of energy use
- Found an optimal energy consumption and usage plan, factoring in pricing and activity

Software Engineer, Shadow   **Cisco Systems**   **May 2020 - June 2020**

- Developed on the IOS XR operating system, with fiber optic/ethernet switches
- Programmed in C and Python to create a log processor/debugger that provided error and status codes for user specified parameters
- Addressed a bottle neck in the development process by automating debugging process

Projects

Spotify2Apple — Python, PyQt5, Spotify/YouTube/AppleMusic APIs
- Created a cross-platform desktop application with PyQT to download Spotify playlists to Apple Music
- Used multithreading to cut download/editing time by ~80%; achieved a conversion rate of ~3 songs/second
- Used Spotify and Youtube API's for song metadata, and eyeD3 for editing

URL Shortener with Analytics — Node.js, MongoDB, Express, EJS, HTML/CSS/JS
- Used the MERN stack to create a full stack URL shortener (like bit.ly), that can track link/user statistics

Connect 4 over Websockets — C++, Websockets

Uber/Lyft Price App — Swift, Xcode, Cocoapods, Google Maps/Apple Location APIs

Skills

Languages: Python, Java, C, C++, HTML/CSS/Javascript, Swift
Frameworks/Technologies: Node.js, MongoDB, Pandas, Numpy, Matplotlib, Matlab, Shell scripting
Relevant Coursework: Advanced C Programming, Differential Equations, Linear Algebra, Electrical Engineering Fundamentals, Intro to Unix/Linux Shell Scripting, Intro to C++, Discrete Structures