

# ANISH LADDHA

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## Education

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<b>Purdue University</b>	<b>West Lafayette, IN</b>	<b>August 2021 - May 2025</b>
<ul style="list-style-type: none"><li>Bachelors of Science in Computer Engineering, Concentration in Artificial Intelligence and Machine Learning</li><li>GPA (M): 3.57; Dean's List and Semester Honors</li></ul>		
<b>Mission San Jose High School</b>	<b>Fremont, CA</b>	<b>August 2017 - June 2021</b>

## Experience

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<b>Software Engineer, Intern</b>	<b>Visa Inc. [Foster City, CA]</b>	<b>May 2023 - August 2023</b>
<ul style="list-style-type: none"><li>Developed a real-time big data Proof of Concept application on the VisaNet platform using Hadoop and Apache Spark.</li><li>Optimized processing through gradient descent and machine learning built on SparkLens, reducing runtimes by ~30% and saving hours of processing time and expensive compute resources.</li><li>Enabled scalability to handle &gt;100 requests per second, ensuring seamless operations during peak demand.</li><li>Developed a full stack Flask (Python) and MySQL-based scalable app for optimization and data visualization.</li><li>Presented project results effectively via a Grafana frontend for intuitive stakeholder insights.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Visa Inc. [Austin, TX]</b>	<b>May 2022 - August 2022</b>
<ul style="list-style-type: none"><li>Built a REST API from scratch using MySql, Java, SpringBoot, and Autowired on an Apache server, reducing project enrollment/update times by approximately 1 hour per project.</li><li>Integrated the API with existing infrastructure supporting 20+ critical applications across the company.</li><li>Addressed 21 high-level security issues in the Lighthouse test automation framework in Python, protecting against command line injection and file traversal attacks.</li></ul>		
<b>Software Engineer, Intern</b>	<b>Impressico Inc.</b>	<b>June 2020 - August 2020</b>
<ul style="list-style-type: none"><li>Analyzed millions of time series data points of heating, lighting, and motion information for Aramark buildings with large energy consumption.</li><li>Utilized Python (pandas, numpy, matplotlib) to clean, process, and visualize data, and performed regression tests to create predictive models of energy use.</li><li>Developed an optimal energy consumption and usage plan, considering energy costs and activity.</li></ul>		
<b>Software Engineer, Shadow</b>	<b>Cisco Systems</b>	<b>May 2020 - June 2020</b>
<ul style="list-style-type: none"><li>Developed on IOS XR operating system with fiber optic to ethernet switches</li><li>Programmed in C and Python to create an embedded log processor/debugger that provided error and status codes for user-specified parameters.</li><li>Automated the debugging process, reducing steps and time taken by ~50%, and clearing a major bottleneck</li></ul>		

## Projects

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<b>Spotify2Apple</b> — Python, PyQt5, Spotify/YouTube/AppleMusic APIs
<ul style="list-style-type: none"><li>Created a cross-platform desktop application with PyQt to download Spotify playlists to Apple Music.</li><li>Implemented multithreading to reduce download/editing time by approximately 80% and achieved a conversion rate of about 3 songs/second.</li><li>Aggregated song metadata from Spotify and YouTube APIs and edited audio files using eyed3.</li></ul>
<b>URL Shortener with Analytics</b> — Node.js, MongoDB, Express, EJS, HTML/CSS/JS
<ul style="list-style-type: none"><li>Developed a full-stack MERN URL shortener (similar to bit.ly), implemented features for tracking link/user statistics.</li></ul>
<b>Uber/Lyft Price Comparison App</b> — Swift, Xcode, Cocoapods, Google Maps/Apple Location APIs

## Skills

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<b>Languages:</b> Python, Java, C, C++, HTML/CSS/Javascript, Swift
<b>Frameworks/Technologies:</b> Node.js, MongoDB, Numpy, Matplotlib, Matlab, Shell scripting, Springboot, Embedded, STM32
<b>Relevant Coursework:</b> Data Structures, Signals + Systems, Differential Equations, Linear Algebra, Electrical Engineering 1+2, Intro to Unix/Linux Shell Scripting, Intro to C++, Computer Networking, Python for Data Science, Microprocessors and Systems