

Arnav Surve

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EDUCATION

California State University - Sacramento

Bachelor of Science, Computer Science

Sacramento, CA

Aug. 2024 – May 2026

Purdue University

Bachelor of Science, Cybersecurity – Dean's List, Fall 2023

West Lafayette, IN

Aug. 2022 – May 2024

RELEVANT COURSEWORK

CNIT 27000 - Cybersecurity Fundamentals

Ubuntu, Wireshark, Nmap, SQL, PHP

CNIT 25501 - Object Oriented Programming

Java, JavaSwing

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, Go, L^AT_EX, Javascript, HTML/CSS, Swift

Frameworks: Agile, PostgreSQL, MySQL, Svelte, Node.js/ExpressJS

Tools: Git, Vim, AWS, Bash, Docker, Jupyter Notebooks, VS Code, IntelliJ, XCode

Libraries: pandas, NumPy, Matplotlib, InfraPy, SciKit-Learn

EXPERIENCE

Information Technology Intern

June 2024 – Aug. 2024

MITER Brands – Milgard Manufacturing

Tacoma, WA

- Performed granular analysis of server, application, and network monitoring tools
- Authored a proposal and plan of action for tuning and optimizing alerts flow **reducing notification fatigue by ~60%**
- Developed a microservice in Go to streamline Cisco Unified Communications Manager (CUCM) user and extension provisioning
- Utilized Cisco AXL API calls to **reduce context switching for IT Tech IIIs by ~70% and improve ticket response times by ~40%**

Undergraduate Researcher

May 2024 – Aug. 2024

NASA California Space Grant Consortium

Sacramento, CA

- Developed a classification model using InfraPy and SciKit-Learn to predict seismic activity using infrasound frequencies
- Constructed an infrasound sensor array and monitor using Amphenol Board Mount Sensors and Raspberry Pi

Backend Developer

Aug. 2022 – May 2023

Purdue University Office of Engagement

West Lafayette, IN

- Developed a web application for student and faculty to apply for research grants
- Implemented REST API endpoints using ExpressJS
- Architected an ORM database to handle user data and grant applications using PostgreSQL
- Developed frontend views using React.js and TailwindCSS

PROJECTS

LastFM-crawl | *Python, Flask, AWS Lambda, Docker*

July 2024

- Developed a wrapper for the Last.fm API to get user data and top tracks
- Implemented API endpoints in Flask to serve JSON data
- Deployed application to AWS Lambda using Docker containers for serverless endpoint access, eliminating EC2 costs