Arnav Surve

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EDUCATION

California State University - Sacramento	Sacramento, CA
Bachelor of Science, Computer Science	Aug. 2024 - May 2026
CSC 20 - Java OOP, CSC 35 - Computer Architecture	
Purdue University	West Lafayette, IN
Bachelor of Science, Cybersecurity – Dean's List, Fall 2023	Aug. 2022 - May 2024
CNIT 27000 & 27100 - Cybersecurity Fundamentals I & II, CNIT 24200 - System EXPERIENCE	Administration
IT Infrastructure Intern	June 2024 – Aug. 2024
MITER Brands – Milgard Manufacturing	Tacoma, WA
• Analyzed IT server, application, and network monitoring landscape.	
• Composed a proposal to optimize monitoring alerts flow for greater scalabili reducing average inbox volumes by $\sim 60\%$.	
• Developed Site24x7 monitors to track latency metrics for Infor Cloud REST	
• Overhauled Site24x7 monitor and alert groups, escalation policies, and alert improve efficiency by $\sim 20\%$.	
• Automated compliance audits for Active Directory controlled accounts using	
Undergraduate Researcher	May $2024 - Aug. 2024$
 NASA California Space Grant Consortium Developed unsupervised classification models employing K-Means clustering volcanic activity prediction using infrasound frequencies, utilizing datasets for Scholarworks with a maximum silhouette score of 0.47. 	rom Boise State University
• 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
 Worked in a 10 person team using Agile, developing a full stack web app for Developed RESTful API endpoints using Express.js to enable CRUD function 	onality.
• Implemented federated authentication using Purdue University Single Sign-	
 Architected a PostgreSQL database using Prisma ORM to handle user PII a Utilized Docker for containerization and deployment of application on Purdu 	
PROJECTS	
 taskman Go, Gin, PostgreSQL, Docker Independently developed a full stack CLI task management solution using G providing RESTful APIs for task and user management. Designed PostgreSQL database schemas, including user-specific tables with a statement of the statement	
providing RESTful APIs for task and user management.	foreign key relation

- Created robust error handling and validation mechanisms for API endpoints, enhancing reliability and UX.
- Automated build, testing, and deployment process using Makefile and containerized backend service with Docker.

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

- Developed a wrapper for the Last.fm API as an easier way to embed Last.fm stats in a website or application.
- Implemented API endpoints to serve JSON data (e.g. listening history, followers/following, and aggregated daily/monthly/yearly listening stats).
- Containerized using Docker and created a CI/CD pipeline with Zappa for seamless testing and deployment.
- Deployed to AWS Lambda for serverless endpoint access, mitigating \sim **\$15** in monthly costs compared to EC2.

SKILLS

Languages: Python, Go, SQL, Bash, Java, LATFX, Javascript, HTML/CSS Frameworks: Flask, Gin, Svelte, Node.js, Agile Tools: Git, Vim, Postman, AWS (S3, EC2, Lambda), Bash, Docker, Jupyter Notebooks Libraries: pandas, NumPy, SciKit-Learn

July 2024