

Sadhana Jamkatel

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EDUCATION

North Central College, Naperville, IL

Expected May 2027

Bachelor of Science in Computer Science | Minor: Economics | Concentration: Ethical Leadership

GPA : 3.808

Relevant Coursework: Python, Data Structures, Discrete Structures, Computer Organization and Design, Software Development, Website Development, Data Mining, Calculus I & II, Database System

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, TypeScript, Java, SQL
- **Web Development:** React.js, Next.js, Node.js, NestJS, HTML, CSS, Bootstrap, Flask
- **Cloud & Tools:** AWS S3, EC2, Lambda, CloudFront, CloudWatch, IAM, CDK, Docker, Linux, GitHub Actions, OCLIF (CLI Tooling), Spring Boot
- **Databases:** MongoDB, PostgreSQL, Google Cloud Firestore, mysql
- **APIs & Frameworks:** RESTful APIs, GraphQL, OAuth, WebSockets
- **Other:** Agile, Jira, Figma (wireframing, UI/UX design), Tableau, AI/ML, LangChain + Gemini, HuggingFace

SOFT SKILLS

Soft Skills: Communication, Teamwork, Critical Thinking/Problem Solving, Reliability, Continuous Learning Adaptability, Attention to Detail

WORK EXPERIENCE

DevOps Engineer Intern

June 2025-Present

Aeropay - Chicago, IL

- **Built a full internal documentation site** from scratch using Docusaurus (with MDX and charts), used by 30+ engineers. Integrated custom search and chart components, hosted it on GitHub Pages, and automated CI/CD with GitHub Actions , improving performance and reducing search time from 30 minutes to 30 seconds. Showcased during Agile scrum sprint planning and retrospectives.
- **Set up automated pipelines and AWS hosting** (S3 + CloudFront) with access controls through JumpCloud SSO, making the site secure and reliable for the DevOps and engineering teams which helped to gain startup-like experience in a fast-paced environment.
- **Designed and built a CLI tool** in TypeScript that automated authentication, role-based access, and token generation for AWS/databases, reducing setup time by ~70% and improving developer workflows.
- **Automated the release process** by using OCLIF's markdown generator and GitHub Actions to publish updated CLI docs to a live site with every release, eliminating manual updates and keeping documentation always accurate for good usability.

High-Performance Computing (HPC) Bootcamp Participant

Aeropay - Chicago, IL

- Built an interactive HPC chatbot for scientific Q&A; delivered RAG and non-RAG versions (LangChain, Hugging Face, Gemini), compared accuracy and latency, and documented trade-offs.
- Gained hands-on exposure to Argonne's supercomputing ecosystem (incl. Aurora) and HPC workflows used in scientific computing.
- Completed workshops in data visualization and machine learning for science; practiced turning datasets into clear, usable insights.

PROJECTS

Medical Recommendation System | Machine Learning

Jan 2025 - Feb 2025

- Developed a **healthcare-focused** system predicting diseases based on symptoms using ML models that predicts diseases based on symptoms and suggests treatments using machine learning models such as SVC, Random Forest, and Gradient Boosting.
- Built and deployed RESTful APIs with Flask for backend processing and designed a responsive web interface and AI-powered symptom matching and Google Search API to fetch up-to-date treatment suggestions.

Twitter Clone | Full Stack Development | Web Application

May 2024- Dec 2024

- Developed a full-stack Twitter clone designed for good user experience that supports user authentication, tweet posting, and social interactions like following/unfollowing, using technologies such as React, Vite, Node.js, Express.js, MongoDB, and Cloudinary.
- Designed and implemented RESTful APIs for secure user authentication, profile management, and data storage, utilizing JWT for token-based authentication, bcrypt for password encryption, and custom middleware for efficient routing

LEADERSHIP AND EXPERIENCE

Resident Assistant | Residence Life | North Central College

May 2024 - Present

- Organized and led **15+ community-building activities** per semester, increasing student engagement by **80%** for 50+ residents
- Provided one-on-one mentorship and conflict resolution support to first-year students, motivated them to successfully transition to college.

President | Computer Science Club | North Central College

Aug 2023-Present

- Organized 10+ coding and mentorship workshops to prepare members for technical interviews ,hackathons with effective technical planning while engaging industry professionals to keep members informed about current job opportunities and trends.
- Led a team of club members of 25 by fostering collaboration through effective technical planning and made sure the club is inclusive to all

AFFILIATIONS

Affiliations: Color Stack, RTC, SHPE, NSBE, AnitaB.org, Girls Who Code, ACM, Women in Technology