Lasya Yakkala

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EDUCATION

University of Texas at Austin   August 2024 - May 2026
MS, Computer Science

University of Texas at San Antonio   August 2021 - May 2024
BS, Computer Science with Software Engineering Concentration, Minor in Psychology   GPA: **4.0/4.0**
President's List for all semesters, Member of Honors College

EXPERIENCE

Computer Science Graduate Teaching Assistant   August 2024 - December 2024
University of Texas at Austin   *Austin, TX*
- Assisted in teaching AI388U, focusing on planning domains, search algorithms, and reasoning under uncertainty, supporting about 544 students with Python-based implementations of classical and modern decision-making approaches for complex autonomous systems.

Computer Science Student Grader   January 2023 - May 2024
University of Texas at San Antonio   *San Antonio, TX*
- Graded student assignments for two sections of CS 3443 (Application Programming) and two sections of CS 3424 (Systems Programming), maintaining high standards set by the professor. Provided detailed feedback and corrections for over 100 student submissions, dedicating 19 hours per week.

Endpoints Solutions Engineering Computer Lab Assistant   June 2023 – December 2023
UTSA University Technology Solutions   *San Antonio, TX*
- Created over 40 PowerShell scripts to manage endpoints, automate processes, and restructure UTSA's Active Directory.
- Imaged 50+ computers and troubleshooted different issues regarding software, connection to the network, and faulty hardware.
- Utilized GitLab, Windows Powershell, Active Directory, Process Automation, ServiceNow, and Windows Desktop Administration.

SKILLS

- **Programming Languages:** C, C#, Java, Python, PHP, JavaScript, TypeScript, MongoDB, Express.js, React.js, Node.js, Next.js, SQL, HTML & CSS, Bash, Unix utilities, PDDL, Windows PowerShell
- **Tools/Software:** VSCode, Eclipse, Git & GitHub, MySQL Workbench, GitLab, Linux, Amazon AWS (RDS and EC2), Microsoft Office Suite(Word, PowerPoint, Excel), Android Studio, JavaFX Scene Builder, ServiceNow, Tableau, JASP, Vim, Vercel, Postman, Unity, Jira, Linear, Scikit-learn
- **Soft Skills**: Excellent verbal and written communication, fast learner, team player/leader, great problem-solving skills, & detail-oriented

PROJECTS

WatchListed | https://watch-listed.vercel.app/   June 2024 - August 2024
Project Lead, Web and Machine Learning Developer
- Led the development of a TV show recommendation web app by designing and deploying a machine learning model using Python and scikit-learn, applying TF-IDF vectorization to metadata and cosine similarity for content-based filtering.
- Enhanced user experience and interface design by creating a sleek and responsive UI using Next.js, TypeScript, and Tailwind CSS, and implementing robust backend services with Prisma ORM, FastAPI, and CockroachDB for seamless data management.
- Integrated FastAPI and Uvicorn to build an API for handling recommendation requests, and deployed a detached process on an AWS instance to fetch recommendations in real-time.
- Automated data maintenance and sanitization processes for over 150,000 MySQL records using Python scripts.

NexTech | https://nex-tech-store.vercel.app/   January 2024 - May 2024
Full-Stack Web Developer
- Spearheaded the development of a Next.js e-commerce platform with over 50 products, overseeing the integration of Stripe for secure payments, Clerk for user authentication, Vercel for deployment, TailwindCSS for styling, and Prisma ORM with CockroachDB for efficient data management by serving HTTP requests over RESTful API endpoints.

Quest for Texas Best Application | Senior Capstone U-to-HEB Web Application Project   January 2024 - May 2024
Project Lead, Full-stack Web Developer
- Led a team of 5 student developers in conceptualizing and implementing a cloud-based web application for the HEB Quest for Texas Best Contest using Agile methodology to develop software and manage tickets using Jira.
- Orchestrated the integration of a PostgreSQL database with a Python backend using FastAPI, while leveraging React for the responsive front-end UI. Employed Pydantic for data validation, and integrated Vite and TypeScript for enhanced development efficiency. Implemented Docker for seamless containerization, optimizing dependency management across various operating systems. Created CI/CD pipelines to lint and format codebase using GitLab.

HackKit   August 2023 - May 2024
Full-stack App Developer
- Helped manage a team of 5 in the development of an event management app used for hackathons, responsible for handling contestant submissions, judge reviews, and technical overhead for ACM UTSA. Employed for all UTSA hackathons, which total over 1000 hackers in attendance annually.
- Strategically designed 10 schemas for PostgreSQL database hosting data for over 1000 participants using Drizzle ORM. Additionally used React.js, Next.js, TypeScript, Vercel, Tailwind CSS, and Clerk to develop the application.

RightBite   November 2023
Full-stack Web Developer
- Co-led a team of 4 student developers in the creation of a food safety awareness web app that allows users to scan product barcodes or input the barcode numbers to receive key information about product ingredients, ingredient safety, and overall food safety rating using TypeScript, Next.js, React.js, TailwindCSS, and Cheerio.
- Deployed app on Vercel and configured it to use a custom domain name from the GoDaddy Registry.

OptiMeal   October 2023
Full-stack Web Developer
- Co-led a team of 4 in the creation of a personalized meal-planning web app that generates 21 unique meals per week by pulling data from a browsable recipe database with filters for dietary restrictions, cuisines, and macronutrient targets, built using MongoDB, Node.js, Express.js, and React.
- Display recipe-specific macronutrient data, ingredient lists (output as a printable shopping list), and preparation instructions.

LEADERSHIP/ON-CAMPUS INVOLVEMENT

Rewriting The Code   June 2024 - Present
Member

Graduate Women and Gender Minorities in Computing, UT Austin Chapter   June 2024 - Present
Member

Tau Sigma National Honor Society - UTSA Chapter   January 2022 - May 2024
President
- Managed communication and led community events every semester for hundreds of transfer students part of the national organization, Tau Sigma National Honor Society. Attended the 2023 Tau Sigma Leadership Conference, and received a $3000 Spring 2023 scholarship.
- Work closely with the University Career Center Student Advisory Board as a member, offering professional networking opportunities to students.

Association of Computing Machinery (ACM) Chapter at UTSA   September 2021 - May 2024
Member, Design Team Lead for RowdyHacks 2022
- Produced and managed promotional materials such as stickers, banners, T-shirts, ID cards, and more for RowdyHacks 2022, San Antonio's largest annual student-led hackathon, with over 550 hackers.
- Developed HackKit, an event management app utilized for hackathons that handles contestant submissions, judge reviews, and technical overhead for ACM UTSA.
- Participated in two iterations of RowdyHacks (2023 and 2024) and developed a project for each.