

Sindhu Vadapalli

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EDUCATION

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| Arizona State University <i>Master of Science in Computer Science: with thesis GPA: 4.0</i> | Aug 2025 – May 2026 Tempe, AZ |
| Arizona State University <i>Bachelor of Science in Computer Science: Minor in Statistics GPA: 4.0</i> | Aug 2021 – May 2025 Tempe, AZ |

EXPERIENCE

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| Research Assistant <i>Self-Organizing Particle Systems Lab, ASU</i> <ul style="list-style-type: none">Researched near-optimal solutions for the traveling salesman problem using reinforcement learning. Examined an auction-based heuristic against the greedy nearest-neighbor heuristic for 70+.85% instances outperformed nearest neighbor; achieved an average of 2.5% cost improvement. Funded by the National Science Foundation REU award. | Sep 2024 – Present Tempe, AZ |
| Software Engineering Intern <i>Hidden Gemz</i> <ul style="list-style-type: none">Designed a real-time, user centered recommendation system using collaborative filtering.Integrated Google Maps API to get the distance and time given location and transportation method. Achieved system scalability and streamlined API/database calls for future growth as part of a 4 person capstone team. Tools and tech stack: Pandas, NumPy, Sci-kit learn, PostgreSQL | Aug 2024 – May 2025 Remote |
| Research Assistant <i>The Virtualized Infrastructures, Systems, and Applications Lab, ASU</i> <ul style="list-style-type: none">Assisted in developing machine learning models for stress prediction using biometric data (MET) from over 6000 Fitbit samples collected from police cadets.Improved model accuracy from 68.83% to 79.75% through hyperparameter tuning and effective interval identification. Conducted data preprocessing, including cleaning and feature extraction, utilizing Pandas, NumPy, and scikit-learn. | May 2024 – Dec 2024 Tempe, AZ |
| Undergraduate Teaching Assistant <i>Ira A. Fulton Schools of Engineering, ASU</i> <ul style="list-style-type: none">UGTA for “Intro to Theoretical Computer Science”, “Principles of Programming” and UGTA “Object Oriented Programming and Data Structures”Administered weekly office hours and exam reviews with a student turnover between 60–100. | Aug 2022 – Dec 2024 Tempe, AZ |

PROJECTS

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| Cookin: your AI chef buddy! <i>React native, RN Executorch, LLaMA 3 model</i> <ul style="list-style-type: none">Developed an AI-powered cooking app using React Native and Executorch to simplify meal planning .Deployed an on-device LLaMA 3 model to generate curated recipes based on user input.Integrated speech-to-text (STT) using react-voice, enhancing accessibility for diverse user needs.Prompt engineered to fine-tune recipe quality, balancing accuracy and creativity. Published to the App Store with optimized performance and responsive UI, resulting in 15+ organic downloads. | June 2025 – July 2025 |
| LingoVerse <i>MongoDB, Express.js, React, Node.js</i> <ul style="list-style-type: none">Built a full-stack language learning application enabling users to create, organize, and review flashcards.Engineered secure authentication system using bcrypt to hash passwords and safeguard user credentials.Developed RESTful API endpoints with Express.js to manage account creation and user authentication.Led an Agile team, coordinating 2-week sprints to drive consistent progress and collaboration. | Aug 2024 – May 2025 |

TECHNICAL SKILLS AND AWARDS

Languages: Java, Python, C/C++, SQL, C#, JavaScript, HTML/CSS, Swift
Frameworks: React, Node.js, Flask, JUnit, PyTorch, React Native, .NET
Developer Tools: Git, Jupyter Notebook, VS Code, Visual Studio, Eclipse
Certificates: Deep Learning Specialization by DeepLearning.AI from Coursera
Awards: Dean’s List, FURI award, National Science Foundation REU award, ASU NAMU - Provost’s Award