

# Sindhu Vadapalli

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## EDUCATION

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

## EXPERIENCE

<b>Research Assistant</b> <i>Self-Organizing Particle Systems Lab, ASU</i> <ul style="list-style-type: none"><li>Worked on finding near-optimal solutions for the traveling salesman problem using reinforcement learning. Tested an auction-based heuristic against the greedy nearest-neighbor heuristic.</li><li>Around 85% instances outperformed nearest neighbor with an average of 2.5% cost improvement. Funded by the National Science Foundation REU award.</li></ul>	September 2024 – Present Tempe, AZ
<b>Software Engineering Intern</b> <i>Hidden Gemz</i> <ul style="list-style-type: none"><li>Assisted in development of a real-time, user centered recommendation system using collaborative filtering.</li><li>Integrated Google Maps API to get the distance and time it takes to get to places given location and transportation method. Contributed to testing, system scalability, and streamlining API/database calls for future growth as part of the capstone team. Tools and tech stack: Pandas, NumPy, Sci-kit learn, PostgreSQL</li></ul>	August 2024 – May 2025 Remote
<b>Undergraduate Teaching Assistant</b> <i>Ira A. Fulton Schools of Engineering, ASU</i> <ul style="list-style-type: none"><li>UGTA for Intro to Theoretical Computer Science, Principles of Programming” and UGTA and Grader “Object Oriented Programming and Data Structures”</li><li>Held weekly office hours; help with exam proctoring; Exam reviews with a student turnover between 60–100.</li></ul>	August 2022 – December 2024 Tempe, AZ
<b>Research Assistant</b> <i>The Virtualized Infrastructures, Systems, and Applications Lab, ASU</i> <ul style="list-style-type: none"><li>Assisted in developing machine learning models for stress prediction using biometric data (MET) from over 6000 Fitbit samples collected from police cadets.</li><li>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.</li></ul>	May 2024 – November 2024 Tempe, AZ

## PROJECTS

<b>Cookin: your AI chef buddy!</b>   <i>React native, RN Executorch, LLaMA 3 model</i> <ul style="list-style-type: none"><li>Developed an AI app using React Native and Executorch to make cooking and meal planning easy.</li><li>Used React Native Executorch to incorporate on-device LLaMA 3 model to help users curate recipes.</li><li>Implemented speech-to-text (STT) using react-voice along with text input to cater to various users.</li><li>Prompt engineered to fine-tune recipe outputs for accuracy and creativity. Shipped the app to App Store, ensuring optimized performance and responsive UI.</li></ul>	June 2025
<b>LingoVerse</b>   <i>MongoDB, Express.js, React, Node.js</i> <ul style="list-style-type: none"><li>Built a full-stack language learning application enabling users to create, categorize, and review flashcards.</li><li>Implemented user authentication system using encrypted passwords with bcrypt for secure login functionality.</li><li>Developed RESTful API endpoints in Express.js to handle user registration and login logic.</li><li>Led an Agile team and implemented 2-week sprint cycles to ensure efficient progress and collaboration.</li></ul>	August 2024

## 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