

Sindhu Vadapalli

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EDUCATION

Arizona State University <i>Masters of Science in Computer Science: with thesis GPA: 4.0</i>	June 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

Research Assistant <i>Self-Organizing Particle Systems Lab, ASU</i> <ul style="list-style-type: none">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.Around 85% instances outperformed nearest neighbor with an average of 2.5% cost improvement. Funded by the National Science Foundation REU award.	September 2024 – Present Tempe, AZ
Software Engineering Intern (Capstone Project) <i>Hidden Gemz</i> <ul style="list-style-type: none">Assisted in development of a real-time, user centered recommendation system using collaborative filtering.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. Tools and tech stack: Pandas, NumPy, Sci-kit learn, PostgreSQL	August 2024 – May 2024 Remote
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 - Held 1 hour of weekly office hours; help with exam proctoring; 2 exam reviews for midterms with an approximate 200 student turnover.UGTA for “Principles of Programming” and UGTA and Grader “Object Oriented Programming and Data Structures”.	August 2022 – December 2024 Tempe, AZ
Research Assistant <i>The Virtualized Infrastructures, Systems, and Applications Lab, ASU</i> <ul style="list-style-type: none">Assisted on a project that used machine learning models to predict stress using biometric data collected from police cadets using Fitbits. Used tools like TensorFlow, Sci-kit Learn, NumPy.	May 2024 – November 2024 Tempe, AZ

PROJECTS

Cookin: your AI chef buddy! <i>React native, RN Executorch, LLaMA 3 model</i> <ul style="list-style-type: none">Developed an AI app using React Native and Executorch to make cooking and meal planning easy.Used React Native Executorch to incorporate on-device LLaMA 3 model to help users curate recipes.Implemented speech-to-text (STT) using react-voice along with text input to cater to various users.Prompt engineered to fine-tune recipe outputs for accuracy and creativity. Shipped the app to App Store, ensuring optimized performance and responsive UI.	June 2025
LingoVerse <i>MongoDB, Express.js, React, Node.js</i> <ul style="list-style-type: none">Developed a full-stack language learning application using MongoDB, Express.js, React, and Node.js. Implemented user authentication and login and flashcards categorized by topics to enhance learning.	August 2024
EffortLogger: track teams' progress <i>Java, Eclipse, JavaFX</i> <ul style="list-style-type: none">Developed an interactive application that helps users log daily efforts using JavaFX, Java, and FXML. Led an Agile team and implemented a 2-week sprint cycle to ensure efficient progress and collaboration.	August 2023

TECHNICAL SKILLS AND AWARDS

Languages: Java, Python, C/C++, SQL, C#, JavaScript, HTML/CSS, Swift
Frameworks: React, Node.js, Flask, JUnit, React Native
Developer Tools: Git, Jupyter Notebook, VS Code, Visual Studio, Eclipse
Awards: Dean's List (every semester), FURI award, National Science Foundation REU award, New American University - Provost's Award
Coursework: Design and Analysis of Algorithms, Artificial Intelligence, Bio-Inspired computing