Ruthvik Kanukuntla

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Education

Arizona State University Tempe, AZ
Bachelor of Science in Computer Science *Expected May 2027*
GPA: 4.0/4.0 | Dean's List (All Semesters)
Relevant Coursework: Principles of Programming, Object-Oriented Programming and Data Structures, Computer Organization and Assembly Language, Data Structures and Algorithms

Technical Skills

Programming Languages: Python, C, Java, C++, JavaScript
Libraries & Frameworks: pandas, NumPy, OpenCV, Matplotlib, Flask
Tools & Platforms: Git, GitHub, Linux, VS Code, LaTeX, Figma
Currently Learning: React.js, MongoDB, TensorFlow

Projects

Selected academic and personal projects demonstrating applied Python development, teamwork, and user-focused problem solving.

BillSplitter App – *Python, OpenCV, Tesseract, Tkinter*

- Developed a bill-splitting app that uses OCR to extract text from scanned receipts and auto-assign items to people via dropdown UI.
- Reduced manual entry by 80% and streamlined group payment tracking using Python logic and OpenCV for image parsing.

Expense Tracker Visualization Tool – *Python, pandas, Matplotlib*

- Built a tool that processes monthly bank statements to categorize and visualize user expenses via pie charts and bar graphs.
- Enabled users to track spending patterns and spot anomalies using pandas for data handling and Matplotlib for plotting.

The Desk Bot – *Python, Raspberry Pi, SpeechRecognition, pyttsx3*

- Developing a voice-controlled desktop assistant to automate tasks like telling time and responding to prompts in real time.
- Integrated speech input/output using SpeechRecognition and pyttsx3, with expansion plans for GPT integration and home control.

Visually Impaired Navigation Belt – *Raspberry Pi, Python, Ultrasonic Sensors, Vibration Motor*

- Co-developed a wearable navigation aid for visually impaired users by integrating ultrasonic sensors and Python-triggered vibration feedback on Raspberry Pi.
- Enhanced user mobility and independence by designing an ergonomic, adjustable belt with securely sewn sensor modules and optimized wiring for daily wearability.

Work Experience

Career Peer – *ASU Career Services, Tempe, AZ* *April 2025 – Present*

- Advised students and alumni on resumes, cover letters, and job search strategies, improving career readiness through 1:1 appointments and resource referrals.
- Represented Career Services at orientations and outreach events, promoting university-wide support services to 200+ students.
- Managed front desk operations and appointment scheduling via Handshake, enhancing the student intake process with timely and accurate communication.

ENG 107 Course Mentor – *Arizona State University* *Jan 2024 – May 2024*

- Supported instructor-led sessions for first-year students, focusing on developing academic writing and critical reading skills.
- Facilitated peer-review workshops and provided individualized feedback, improving student confidence and essay clarity.

Awards & Honors

New American University Scholarship Arizona State University
Awarded a merit-based scholarship worth $11,500 for academic excellence and potential.
Dean's List (All Semesters) Arizona State University
Recognized for achieving a 4 GPA each semester while enrolled full-time.