

# Divij Singh Thakur

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## EDUCATION

<b>Arizona State University</b> <i>B.S. in Computer Science</i> <ul style="list-style-type: none"><li>Dean's list, NAU Scholar, Outstanding Leadership Award</li><li><b>Relevant Coursework:</b> Object-oriented programming and Data Structures, Data Structures &amp; Algorithms, Digital Design Fundamentals, Assembly Language Programming, Discrete Mathematical Structures, Statistics for Engineers, Theoretical Computer Science, Information Assurance, Introduction to Software Engineering, Foundations of Machine Learning, Operating Systems, and Introduction to Human Computer Interaction.</li></ul>	<b>Tempe, Arizona</b> <i>Expected Graduation, May 2026</i>
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## WORK EXPERIENCE

<b>AZNext: Workforce Training Accelerator Program</b> <i>Program Coordinator Assistant</i> <ul style="list-style-type: none"><li>Delivered instructional support for CIS 194 by facilitating review sessions to help students prepare for the AWS Certified Cloud Practitioner exam. Graded assignments while assisting students with technical queries during office hours to ensure continuous learning.</li><li>Collaborated with faculty to improve student engagement and track learning outcomes; leveraged Salesforce CRM to assist the research team in analyzing participant success metrics and program feedback.</li></ul>	<b>Tempe, Arizona</b> <i>March 2025 - Present</i>
<b>School of International Letters &amp; Cultures</b> <i>Technology Support Assistant</i> <ul style="list-style-type: none"><li>Provided technical and logistical support to over 3,000 students and faculty by coordinating space scheduling, delivering services, and maintaining class infrastructure to ensure smooth academic operations. Streamlined library resource management using Koha inventory system.</li><li>Designed and implemented the SILC Cataloging Bot, reducing cataloging time by 50% and minimizing errors in Library resource processing.</li></ul>	<b>Tempe, Arizona</b> <i>January 2024 – March 2025</i>
<b>Semi-Conductor Laboratory</b> <i>Intern</i> <ul style="list-style-type: none"><li>Conducted statistical analysis on datasets with over 100,000 entries using JMP software, identifying trends and anomalies to support yield improvement efforts in semiconductor fabrication.</li><li>Collaborated on a Java-based automation tool that streamlined data sorting for semiconductor testing logs, reducing processing time by 20% and improving data pipeline efficiency.</li></ul>	<b>Punjab, India</b> <i>June 2023 – July 2023</i>

## TECHNICAL SKILLS

- Programming Languages & Frameworks:** C, C++, Java, JavaFX, P5.js, Python, SQL, PyTorch, TensorFlow, AWS
- Web Technologies:** HTML, CSS, JavaScript, Flask
- Design and Modeling Tools:** JMP Pro, Microsoft Office Suite
- Operating Systems:** Windows, MacOS, Linux

## PROJECTS

<b>Bloom – AR Emotion Recognition and AI Wellness Companion</b>   <i>JavaScript, Node.js, OpenAI API, Socket.IO, MediaPipe</i> <i>Project Lead</i> <ul style="list-style-type: none"><li>Developed an interactive web application that detects real-time user emotions using facial landmark tracking, enabling dynamic AR visualizations that reflect emotional states.</li><li>Engineered a contextual AI journaling and chatbot system using OpenAI's API, integrated with a gamified wellness tracker featuring streak-based digital garden growth to deliver personalized mental health support and encourage daily emotional check-ins.</li></ul>	<b>Tempe, Arizona</b> <i>April 2025</i>
<b>EmberWatch – AI-Powered Wildfire Detection</b>   <i>Python, Flask, HTML, CSS, JavaScript, PyTorch, TensorFlow</i> <i>Project Manager and Full-Stack Developer</i> <ul style="list-style-type: none"><li>Developed a CNN-based image classifier using PyTorch and TensorFlow, achieving high-accuracy wildfire detection across real-world datasets.</li><li>Deployed a Flask-based web application enabling real-time image uploads and automatic fire/no-fire classification.</li><li>Evaluated the feasibility of integrating satellite and drone imagery, outlining a pipeline for large-scale deployment and real-time alerts.</li></ul>	<b>Tempe, Arizona</b> <i>February 2025</i>
<b>Sun Devil Book Exchange – JavaFX-Based Book Marketplace</b>   <i>JavaFX, Java, FILE I/O</i> <i>Project Lead</i> <ul style="list-style-type: none"><li>Designed and built a full-stack JavaFX application that allowed students to list, filter, and purchase textbooks via intuitive UI components.</li><li>Implemented auto-pricing logic using file I/O to dynamically suggest competitive prices based on prior listing trends and book condition.</li><li>Added buyer and seller account features, increasing engagement, and successfully demoed to a class of 50+ students with positive feedback.</li></ul>	<b>Tempe, Arizona</b> <i>August 2024 – December 2024</i>
<b>TextWise – AI-Powered SMS Learning Platform</b>   <i>Python, flask, HTML, CSS, JavaScript</i> <i>Project Manager and Frontend Developer</i> <ul style="list-style-type: none"><li>Engineered an SMS learning assistant, enabling personalized content delivery via text for low-connectivity users.</li><li>Built and optimized the backend using Python and Flask, reducing API response time by 30% while integrating Twilio for SMS delivery and OpenAI for personalized content. Won the Best Rookie Award for project impact and innovation.</li></ul>	<b>Tempe, Arizona</b> <i>October 2024</i>
<b>Prodbot - OpenAI Hackathon Project</b>   <i>Natural Language Processing, Prompt Engineering</i> <i>Project Lead</i> <ul style="list-style-type: none"><li>Built an AI-powered bot that parsed 100+ ICS files to automate class schedule management for Canvas users, saving ~2 hours/week per user.</li><li>Implemented NLP-driven prompts and reminders to enhance productivity and reduce cognitive load during peak academic periods.</li><li>Recognized in the top 10% of OpenAI Hackathon submissions for technical innovation, UX design, and real-world applicability.</li></ul>	<b>Tempe, Arizona</b> <i>September 2024</i>

## EXTRACURRICULAR ACTIVITIES

<b>Connecting International Communities</b> <i>President</i> <ul style="list-style-type: none"><li>Leading a student organization of 750+ members by coordinating logistics for 10+ multicultural events aimed at building a safe community.</li></ul>	<b>Tempe, Arizona</b> <i>December 2023 - Present</i>
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