Tanav Jalan

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TECHNICAL SKILLS

- Programming Languages: Python, SQL, C++, JAVA, R, Matlab, HTML, CSS
- Cloud Platforms and Operating Systems: Microsoft, AWS, GitHub, MacOS, Windows, Linux, DevOps
- Development: Web (JavaFX, Node.js, React.js), iOS (SwiftUI, Firebase), Blender
- Design & User Experience: Astah, JUnit, Jira, Figma, Canva, Tiago

CERTIFICATIONS

- **Stanford University**: 'Specialization In Machine Learning'.
- **Microsoft**: Career Essentials in 'Generative AI' and 'Data Analysis'.
- **Amazon Web Services**: 'Introduction to Machine Learning' on AWS
- **University of Michigan**: 'Generative AI Essentials' and 'Developing AR/VR/MR/XR Apps with WebXR, Unity & Unreal'
- **GitHub**: Career Essentials in 'GitHub Professional Certificate'

WORK EXPERIENCE

AR/VR Developer Intern
August 2024 - Present
Remote, USA
National Aeronautics and Space Administration (NASA)
- Assembling an asteroid Psyche 3D simulation, amplifying engagement by a quarter using JavaScript for system stability.
- Integrating NASA's mission data with real-time visualization tools, creating a web application, cloning Psyche's routine cycles, augmenting more than 30% educational outreach.
- Implement AR/VR interface in teams to imitate surface conditions, escalating immersion and objective of NASA's mission.

Software Development Analyst Intern
September 2024 - Present
Hybrid, New York, USA
CohnReznick LLP
- Resolving operational bugs and implementing code remediation using Microsoft Fabric to enhance system stability.
- Converting major business requirements into technical specs, using PowerBI leading faster development cycle.
- Developed and tested APIs with Node.js, cutting front-end load times by 25%, and documented for QA.

Cloud Computing Engineer Intern
April - May, 2024
New York, USA
Verizon
- Assembled a VPN product 'Sasha' for Verizon's Cloud Computing team.
- Focused on cloud-native traits such as redundancy, resiliency, and least-privilege using command line Python for testing.
- Researched 4 advanced methods for application security, enhancing the VPN's robustness against potential threats.
- Showcased a detailed presentation with key insights and strategic proposals, captivating and securing new clientele.

Data Automation Specialist Intern
June - August 2023
Bengaluru, India
KPMG
- Transformed and structured 1TB of raw data, ensuring seamless data flow and 99% consistency.
- Automated data extraction using 'Pandas' and 'openpyxl', reducing manual effort by 80% and revising accuracy by 94%.
- Devised dynamic algorithms automating 95% of tasks, ensuring real-time updates, and refining data presentation.

Web Developer Intern
December 2023 - March 2024
Coimbatore, India
Nexus Info
- Boosted deployment speed by 40% with Jenkins, reduced cloud app load times from 4 to 1.5 seconds, and cut full stack debugging time by 30% in MVC architecture.

Blockchain Developer Intern
June - August 2023
Hyderabad, India
Tech Mahindra
- Integrated DApps with front-end interfaces, conducted 45+ tests, and implemented cryptographic algorithms to ensure maximum reliability.
- Revamped 40% security by researching and implementing solutions to protect blockchain platforms from vulnerabilities.
- Engineered and executed over 20 smart contracts using Solidity on the Ethereum platform.

Subject Area Tutor
August 2023 - 24
Tempe, USA
Arizona State University
- Supported 2000+ students articulating complex Mathematical, Chemistry, Physics and even Java concepts.
- Performing tailored academic support, nurturing comprehension and mastery of intricate concepts.
- 1 on 1 and small group sessions to support diverse learning styles and provide constructive feedback.
- Conducted problem-solving sessions and bolster study techniques for optimal exam performance.

PROJECT EXPERIENCE

NASA Advanced Psyche Mission: Metal-Rich Asteroid Visualization
- Developing a 2D/3D web simulation of the metal-rich asteroid Psyche ,using Javascript, for public and educational use, showcasing its unique rotation and short day cycle with a year-long time feature.

Property Rental System with Map Integration
- Collaborated on a prototype property rental platform featuring real-time map integration using the Google Maps API, which led to a twofold increase in user engagement and a significant improvement in search efficiency.

AI Chat for Health Support
- Implemented an AI chat support for health queries using Python and ML algorithms, upgrading diagnostic precision, cutting user wait times, and improving disease detection. This tool also serves as an initial contact before doctors engage with patients or their families.

AWARDS & HONORS

NaMU Scholarship recipient
- Awarded $12k annual grant for four years, in recognition of academic excellence, leadership, and community engagement, supporting academic endeavors.

Arizona State University Dean's List
- Consistently on the Dean's list from Fall 2021 through Spring 2024, demonstrating a commitment to academic excellence and rigorous standards.

SUN (Serving University Needs) Award
- Received the award at ASU for exceptional service, innovation, social engagement, and exemplifying dedication to the university's mission and values.

Mr. Phoenix 2024
- Won the title, in a competitive pageant assessed physical appearance, personality, and talent. Participants showcased skills and abilities in front of a panel of judges and a live audience.

SKILLS

- Communication and Organizational Skills
- Leadership and Teamwork
- Critical and creative thinking with problem solving mindset
- Flexibility and Adaptability
- Tutoring and Student Assistance
- Quick Learner with an ability to work in diverse cultural environmental

EDUCATION

Undergraduate Degree
Arizona State University

Expected May 2025
Tempe, USA

- Bachelor of Science in Computer Science , BS [ESCSEBS]
- Minor in Mathematics
- GPA : 3.8 / 4.0