Tushar Tyagi

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EDUCATION

Arizona State University   Tempe, AZ
Bachelor of Science in Computer Science | GPA: 4.0   *Aug. 2021 – Dec 2024*

Relevant Coursework: DSA, OOP, Theoretical Comp Sci, Principles of Programming Languages, Intro to SWE, HCI, Computer & Network Security, Operating Systems, Mobile App Dev, Prob & Stats, Linear Algebra, Discrete Math
Activities: **3 x Student Leader** (Grand Challenges Scholars Program), **4 x Undergraduate Teaching Assistant**

EXPERIENCE

Software Engineering Intern   May 2024 – Present
Quicktron Robotics   *Dallas, TX*
- Leading the establishment of **Quicktron's local US-based codebase** responsible for 500,000$+ in new projects

Studio Associate (GenAI Guild Lead)   Nov 2023 – Present
NX Lab: Enterprise Technology Office | Arizona State University   *Tempe, AZ*
- Working within the **UI/UX & GenAI** guilds on **2 interactive VR digital twin projects** using Unity & Figma

Student Researcher   Oct 2022 – Present
Neural Engineering Lab | Arizona State University   *Tempe, AZ*
- Analyzing a **32-channel, 12-category dataset** of micro-electrode recordings using **MATLAB & Python** from scratch; PCA & CNN Decoding of 8,800 spectrogram images achieving >98% accuracy (Publishing in progress)

Vice President   Nov 2021 – Dec 2022
Python Users Group: Student Organization | Arizona State University   *Tempe, AZ*
- Supervised the execution of the semester's syllabus, presentations, and code files, for our **(15<)** weekly meetings
- Independently conducted **5 python-based technical workshops** teaching a total of **250+ students**

Mentor & Teaching Assistant   Nov 2021 – May 2023
Engineering Projects in Community Service | Arizona State University   *Tempe, AZ*
- Led **25+ technical (Python/SQL) and non-technical (Public Speaking/Presenting) lectures/meetings** overseeing a total of **300+ students** with their project hurdles, design documents, and progress
- Reviewed & **provided feedback for 20+ project pitches** worth > **50000$** in funding & scholarships from ASU

PROJECTS

MySchoolSouq | *Swift, Google APIs, Firebase, JSON Parsing*   May 2024
- **iOS App that facilitates users wanting to buy/sell used books** within their city; In process of publishing

DataDaddy - AI Data Analysis Tool | *Python (GPT4, FastAPI, matplotlib), Docker, React/Node.js*   Sept 2023
- AI tool that provides **insights & analyzes/produces graphs** based on .csv files; **Won Best Financial Hack**

AI-Based Lesson Planner | *OpenAI API, Python, Flask, HTML, CSS, Heroku*   June 2023
- A **ChatGPT-based Flask App** that produces lesson plans based on subject, duration, etc.; **Won 3rd Place**

Web Messenger | *React, HTML, CSS, JavaScript, Firebase, Vercel*   May 2023
- Full-stack application featuring **user authentication and real-time data storage/syncing** functionalities

Web Crawler | *Python (Libraries: requests, re), Breadth-First Search Algorithm, Streamlit*   June 2022
- A **BFS-based Web Crawler** that identifies and returns all associated links with any given website recursively

TECHNICAL SKILLS

Programming Languages : Python, Java, C/C++, MATLAB, SQL, JavaScript, HTML/CSS, Swift, UNIX/LINUX
Frameworks : React, Node.js, Flask, Heroku, Vercel, Firebase, WordPress, PyCharm, Unity
Developer Tools : Git, GitHub, Google Cloud Platform, AWS, VS Code, IntelliJ, Eclipse, Figma, JSON
Languages : English (Bilingual Proficiency), Hindi (Native Proficiency), Arabic (Elementary Proficiency)

HONORS & AWARDS

NAMU Scholar : Merit-Based Scholarship worth 15,500$ \ Year | **Panelist :** ASU Digital Trust Summit (Oct'22), ASU Data Privacy Day (Jan'24) | **Dean's List @ ASU :** Fall'21, Spring'22, Fall'22, Spring'23, Fall'23, Spring'24