

# 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*

- Developing **custom software solutions for automated supply chains** (Configuring systems & Debugging)

### 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 – May 2024

*Neural Engineering Lab | Arizona State University*

*Tempe, AZ*

- Analyzed a **32-channel, 12-category dataset** of micro-electrode recordings using **MATLAB & Python**, producing 8,800 graphs to support machine learning initiatives for insights into human speech

### 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