Tanmay Chaudhari

480-742-1393• tanmayschaudhari@gmail.com • linkedin.com/in/tanmaychaudhari04 • tanmaychaudhari04.github.io/Portfolio/

EDUCATION

Arizona State University, Tempe, AZ **Expected Graduation: May 2025**
Bachelor of Science in Computer Science **GPA: 4.0**
Relevant Coursework – Data Structures and Algorithms, Object Oriented Programming, Distributed Software Development, Software Engineering, Operating Systems, Machine Learning, Probability & Statistics, and Digital System Design

SKILLS

Languages: Python, C++, C, C#, Java, JavaScript, Typescript, HTML, CSS
Frameworks: React, Next.js, Vue.js, AngularJS, Tailwind, Flask, Node.js, Pandas
Tools: Git, GitHub, AWS, MongoDB, Jira, MySQL, Firebase, Monday.com, Windows, MacOS, Linux

EXPERIENCE

Tutorbot Content Curator, Arizona State University **Jan 2024 – July 2024**

- Developed content for an AI bot on various subjects like Computer Science, Math, Physics, and Economics.
- Produced short concept videos and tips and tricks posts for various subjects.
- Implemented agile methodologies to enhance workplace productivity and project outcomes.

Teaching Assistant, Arizona State University (Principles of Programming with C++) **Aug 2023 – Dec 2023**

- Managed a class of 180+ students and held office hours for doubts, reviews and discussions.
- Conducted exam review sessions, significantly improving student understanding and engagement.
- Advised students individually on assessments and activities, fostering academic growth.

PROJECTS

Wallet Whiz - Personal Finance Tracker | *JavaScript, ReactJS, Firebase*

- Designed and launched a full stack responsive web application with **98%** uptime, integrating **Google authentication** for users, leveraging **ReactJS** and **Firebase** to securely manage and store user data.
- Engineered comprehensive data visualization tools, including **categorized charts** and **dynamic line graphs**, analyzing spending patterns and income trends effectively, leading to a **30%** improvement in financial decision-making.
- Constructed an intuitive user interface using **Tailwind CSS**, enhancing user experience by presenting detailed transaction data in organized tables, resulting in a **25%** increase in user satisfaction for financial tracking.

Movie Recommendation System | *Python, Pandas*

- Created a movie recommendation system employing **TF-IDF vectorization** and **cosine similarity**, processing over **25M** entries from the MovieLens dataset to provide precise and personalized film suggestions.
- Designed a **Jupyter Notebook** interface, facilitating real-time movie recommendations with seamless handling of extensive datasets, achieving a **40%** reduction in processing time and enhancing user interaction and satisfaction.

Stock Finder | *C#, HTML, CSS*

- Developed a web platform with **C#** and **ASP.NET** and deployed on ASU's web server, seamlessly incorporating financial metrics and news APIs through **WCF**, **WSDL**, **SOAP**, and **RESTful** services for real-time data access.
- Implemented comprehensive security features, including **encrypted** passwords and **CAPTCHA**, leading to a **60%** reduction in security incidents, and optimized dynamic **XML** file handling.

Weather Now | *JavaScript, HTML, CSS*

- Built an interactive web application utilizing JavaScript, HTML, and CSS to deliver **real-time** weather updates for cities worldwide, integrating Open Weather's **API** to ensure accurate and current weather forecasts.
- Applied responsive design techniques, improving user experience across devices.

Word Frequency Analysis | *C++*

- Engineered a **text parsing algorithm** in C++ using a **binary search tree**, enabling efficient analysis of large text files to generate exact word frequency counts and detailed analytical summaries.
- Analyzed texts from novels of **2000+** pages, delivering comprehensive summaries and insights.

EXTRACURRICULAR EXPERIENCE

CodePath Technical Interview Prep **Jun 2024 – Aug 2024**

- Participated in meetings, collaborated with peers to solve **Leetcode** problems, and deepened my understanding of technical interview techniques, focusing on **Data Structures and Algorithms**.