

Aditya Kumar

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EDUCATION

Bachelor of Science, Computer Science with a minor in Statistics and Data Science

University of Arizona, College of Science, Tucson, Arizona

Expected Graduation: May 2024

Cumulative GPA: 3.966 out of 4.0

Highest Academic Distinction for the Academic Year [2020-21, 2021-22]

CORE TECHNOLOGIES & SKILLS

Proficient: Java, Python, C++, C, JavaScript, HTML/CSS, SASS, NodeJS, Express, MongoDB

Experienced: MySQL, C#, REST APIs, JUnit, jQuery

Technologies: Git, Maven, MATLAB, IBM Watson, Unity, Verilog, VIM

RELEVANT COURSE-WORK

Computer Science: Web Programming, Data Structures and Algorithms, Computer Organization, Software Development, Object Oriented Programming, Systems Programming and UNIX, Computer Security (*in progress*)

Mathematics: Calculus (I, II and III), Discrete Mathematics, Linear Algebra, Introduction to Statistics (*in progress*)

PROFESSIONAL EXPERIENCE

UNDERGRADUATE TEACHING ASSISTANT

Department of Computer Science, University of Arizona

August 2021 – Present

- Conduct weekly office hours and supplemental instruction sessions for courses like **CSC 101** (Introduction to Programming), **CSC 144** (Discrete Math for Computer Science) and **CSC 210** (Software Development).
- Partner with the professor for grading and preparing programming assignments and exams for a class of over 150 students.

PROJECTS

QUICKFEED FEEDBACK SYSTEM

Front-End Website Developer

- Designed and developed the user interface using **HTML**, **JavaScript** and **CSS** for a web-application that provides real-time feedback to teachers.
- Along with active feedback, at the end of each semester the teacher would get an email with a comprehensive summary of student feedbacks. This feature was made by using the **Nodemailer** module.
- Built the client-side backend by using **JavaScript**, and facilitated communication with the server by using **AJAX**
- Collaborated in creating the server-side backend using **Node.js** and **Express**, and stored client-side data by creating a NoSQL Database with **MongoDB**.

SAVE-THE-ENVIRONMENT – AIR POLLUTION VISUALIZER

Full-Stack Developer

- Engineered a qualitative visualization tool for a team project at **HackMIT** hackathon that enabled the users to visualize a clear correlation between air pollution and the decline in the populations of various animal species by using heat maps.
- Created the web-app by using basic web languages and implemented the map by using **Google's Map API**. Collaborated in analyzing data from various governmental sites like **epa.gov** and **fwy.gov** and made that data useful by using the **pandas** data analysis library for **Python**.

WORDLE 2.0

Software Developer

- Collaborated with a team of 4 developers to create a multi-modal, multiplayer version of this popular word guessing game using Java's **Swing Library**.
- Created a global leaderboard using **MongoDB Atlas** which was incorporated into the project using **Maven**.
- Implemented an algorithm that analyzed each of the player guesses to rate how accurate and good they were.
- Thoroughly tested the code by using the **JUnit** library to provide a bug-free and reliable user experience.