

Hassaan Ali Wattoo

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Skills & Abilities

Proficient in Python and C++. Deep knowledge of backend development and database manipulation with Python. Also proficient in HTML, CSS and JavaScript for building web applications. Adept at creating visualizations and performing statistical analysis in MATLAB. Proficient in document creation in PowerPoint and Microsoft Word. Fluent in English and Urdu and achieved DELF A2 certification for French.

Honors

President of Pakistan Gold Medal - Aitchison College - 2005 -- 2017

Awarded President of Pakistan Gold Medal for graduating my high school as the best student in academics

Work Experience

Senior Web Editor/Developer — The Michigan Daily

September 2017-
Current

Senior developer on the web development team at The Michigan Daily, the campus newspaper for the University of Michigan since 1890. Currently building web application to serve grade data per semester for every course offered at the University of Michigan with visualizations of changes in grade distributions over semesters and create a searchable index for all dining hall menus at Michigan. Responsible for scraping, collecting and organizing data into databases and developing web application to serve data. Responsible for recruiting team members and managing team for grade app.

Director Information Technology — Next Generation Pakistan

June 2016 —Sept 2017

As the sole director of IT and website manager for the organization, I rewrote and redesigned their WordPress website (<https://ngp.org.pk>) to be mobile responsive and manage their traffic more efficiently (recorded over 500,000 hits from June 2016 - 2017).

Education

University of Michigan - Ann Arbor — B.Eng., Computer Science

GPA: 3.88

Active member of the Living Arts housing community and The Michigan Daily web team at the university. Serving as peer mentor for Living Arts during Sophomore year.

Aitchison College, Pakistan - High School, Cambridge A-Levels

Completed Cambridge International O-Levels and A-Levels, studying general engineering and Computer Science. Awarded full academic blazer twice for high achievement in Cambridge examinations.

Projects

Caption Generator

<https://projects.hassaanaliw.me/captions>

A JavaScript and Flask (Python) based web application that leverages Google Vision APIs and scrapes popular quotes websites and lyric websites to build a SQLite lyrics database to generate image captions based on objects in the photo.

UofM-Hub

https://docs.google.com/presentation/d/1BJPZvAr3TfXa-2_436pJ3X3suZ1SUhdw9FXtvkkdh_g/edit?usp=sharing

UofM-Hub is a project I started to collect all useful Michigan university APIs into one accessible website to make the life of fellow students easier. Was selected to present at the ThunderDome, a collection of entrepreneurial ventures held by the Entrepreneurship department at University of Michigan.

TemPace

<https://tempace.herokuapp.com/>

TemPace takes the Health Data exported from the iOS health app, parses it to extract running data, analyses it to remove useless noise and generates playlists for various intervals of the workout.

Chromepass

<https://github.com/hassaanaliw/ChromePass>

A Python script for extracting passwords saved in the Google Chrome browser on both Windows and Unix based systems and outputting them to CSV for easy backup and movement. Involves using the Win32Crypt API and is part of a larger forensic software for the Google Chrome browser.