

Hassaan Ali Wattoo

Undergraduate Student

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Technologies: Python, Flask, Heroku, C++, Git, SQL, HTML, JS, JQuery, MATLAB, Data and Website Scraping

Experience

Sep 2017 - present	Senior Web Developer <i>The Michigan Daily</i> <ul style="list-style-type: none">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 visualise data for every course offered at the University of Michigan.Responsible for scraping and organising data into databases and developing React frontend to serve data.Leading team of 5 developers.
Sep 2016 - Sep 2017	Director of Information Technology <i>Next Generation Pakistan</i> <ul style="list-style-type: none">Rewrote Wordpress website to be mobile responsive and more efficient. Saw over 500,000 hits in one year.Managed website throughout the year. Duties included reformatting old posts and creating new ones as needed.Led the graphic design team. Created social media posters and real life standee designs. Delegated duties to design team.

Education

Sep 2017 - present	University of Michigan, College of Engineering <ul style="list-style-type: none">BSc in Computer Science, Class of 2021 (GPA: 3.88)Peer Mentor, UofM Residence and Learning CommunitySoftware Developer, AUVSI team, M-Fly Autonomous Planes team
Sep 2005 - Aug 2017	Aitchison College <ul style="list-style-type: none">Awarded President of Pakistan Gold Medal for being the best in Academics throughout my education at the college.Completed 13 Cambridge O-Levels. (11 A Stars, 2 Bs), awarded second prize in entire grade for performance in O-LevelsCompleted 5 Cambridge A-Levels (1 A star, 3 As, 1B)Awarded Full Academic Blazer for excellence in academics on two occasions.

Projects

May 2017 - present	CaptionGen <i>https://projects.hassaanaliw.me/captions</i> <p>A Javascript and Flask (Python) based web application that leverages Google Vision APIs and scrapes popular quotes websites and lyric websites to generate image captions based on objects present in the image.</p>
Sep 2017 - present	TemPace <i>https://tempace.herokuapp.com/</i> <p>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.</p>
Nov 2014 - Dec 2016	Chromepass <i>https://github.com/hassaanaliw/ChromePass</i> <p>A Python script for extracting passwords saved in the Google Chrome browser on both Windows and Unix based systems. Part of a larger forensic software for the Google Chrome browser.</p>
Jan 2018 - 2020	Content-Aware Image Resizer <p>Wrote command-line C++ application which intelligently resizes images using seam-carving techniques based on pixel energy and cost.</p>