

Hassaan Ali Wattoo

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SKILLS

Proficient in Python, Web Scraping, React, C++, Heroku, Git, CSS. Experience with GoLang, SQLite and MySQL.

PROJECTS

GradeGuide - <https://gradeguide.com> - Flask, ReactJS, SQLite, BeautifulSoup, SASS

- Part of team that built a web app to host and display U.M. course grade data, using Python and JavaScript-based data visualization tools, with a focus on an easily modified and scalable platform. Received 90000 visits within the initial release and registration period.
- Developed database structure and application API in Python. Setup testing environment, wrote bash scripts to automate project setup and installation. Integrated CI system to allow seamless deployment.

CaptionGen - <http://project.wattoo.me/captions> - Flask, jQuery, Requests, PostgreSQL, Google Vision

- Created a Javascript and Flask (Python) based web application that leverages Google Vision APIs to generate image captions based on objects present in the image.

ChromePass - <https://github.com/hassaanaliw/chromepass> - Python

- Identified how Google Chrome stored passwords in plaintext on some operating systems and developed a tool to retrieve the passwords and export them into human friendly formats.

EXPERIENCE

The Michigan Daily - *Senior Online Editor*

October 2017 - Present

- Developer for GradeGuide, a web application for visualising course data at the University of Michigan.

Punjab IT Board - *Software Development Intern*

May 2018 - August 2018

- Developed database analysis software for the Punjab Public Management Reform Program (PPMRP) department that detected data duplication in their databases.
- Analysed and reviewed applications from 4 different departments serving hundreds of thousands of civilians and staff members across the province. Suggested model for creating an integrated dashboard for the departments to enable smoother decision making.

Next Generation Pakistan - *Director Information Technology*

Sept 2016 - Sept 2017

- Rewrote and managed Wordpress website to be mobile responsive and more efficient.
- Also served as volunteer teacher of Dramatics, English and Problem Solving at associated underprivileged schools adopted by the organisation.

EDUCATION

University of Michigan - *B.S.E. in Computer Science Engineering*

Sept 2017 - Apr 2020 (Expected)

- Junior Academic Standing. Peer Mentor for Living Arts Learning Community
- **Completed coursework:** Discrete Math, Data Structures, Entrepreneurial Design: IoT Devices, Differential Equations, Multivariable Calculus, Autonomous Electronic Systems, Creative Process

AWARDS

- **President of Pakistan Gold Medal** for excellence in Academics at Aitchison College (high school) across 12 years.
- **SOFTEC 2016 Web Development First Prize** and \$500 for developing an eCommerce website as the only high school team at the university level competition.