ALEXANDER D. PATEL

409 Huron Blvd SE | Rm 3402| Minneapolis, MN 55414
(630) 777-0203 | patel625@umn.edu
alexdpatel.github.io

Education

University of Minnesota Twin Cities — *May 2021*
B.S. in Computer Science — GPA: 3.79/4.00
CSE Dean's List: Fall 2017, Spring 2018
Coursework: Advanced programming principles, Machine architecture, Computational linear algebra, Intro to data structures and algorithms, Discrete mathematics, and Introduction to computer programming

Work Experience

Digital Forces | Intern — *June 2018 – Aug. 2018*

- Used GPIO and Sheets API to monitor changes of digital input on a Raspberry PI and upload to Google Sheets
- Used Multiprocessing, I2C, and Requests to simultaneously monitor a thermal sensor and upload the data to an IOT Database
- Presented solutions to latency issues, Researched IOT databases and license plate recognition software

Involvement and Honors

DECA | President — *Oct 2015 – May 2017*

- Integrated technology into DECA business organization by developing a website for members
- Increased membership by 150% after a decline
- 2-time international level competitor (2016, 2017), 3- time state-level competitor (2015, 2016, 2017)
- Developed business model and prototype with a team for a new product

ACM | Member — *Aug 2017 – Present*

- Volunteered at annual MINNEHack

F.L.O.A.T I *Program Coordinator* — *Aug 2018 – Present*

- Coordinate the educational and informational events for the club

Personal Projects

Arcade Inspired Games | JavaScript

- Used the p5 library to create some browser games such as pong and 2048

Traveling Salesmen | JavaScript

- Created a genetic algorithm to determine the shortest path between n points

Sudoku | Python

- Made use of simple data structures to recreate the popular puzzle game Sudoku

Project Euler Questions | Java

- Solved 60 computer science and math questions

Chrome Extension | JavaScript / HTML

- Used Chrome's Extension API to log all image sources on current tab

alexdpatel.github.io | HTML / CSS

- Created personal website to host some of the projects listed above

Skills/Frameworks

Proficiency: Java, Python, HTML/CSS, JavaScript, P5, Processing, Linux, Mac OSX, Windows, Microsoft Office
Exposure: MATLAB, Node JS, R, C, C++, Git, TensorFlow, Requests