ALEXANDER D. PATEL

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Education

University of Minnesota Twin Cities   *December 2020*
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