SHANE MOE

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Education

B.Sc. in Computer Science at the University of Maryland, College Park **August 2017 - January 2020**
A.Sc. in Computer Science at Montgomery College **August 2015 - May 2017**

Experience

SpringGem Weather Information   **Full Stack Developer**   **October 2019 – Present**
- Built an icy road forecast map app to help drivers see the real-time icy surface forecast for the multiple driving routes to the destination so that they can choose the best route with less icy surface based on their intended departure time in the fall and winter seasons.
- Integrated a voice alert system into the icy road forecast app to alert the drivers to the icy surface of the current location which helps drivers drive more attentively on the icy road surfaces.

OPIS by IHS Markit   **Software Engineer Intern**   **June 2019 -August 2019**
- Developed a data extraction system to extract oil prices from hundreds of daily emails sent by the price suppliers and put the prices into the real-time database system so that the customer oil companies can easily get real-time oil price reports and remain competitive in the market.

Maryland Transportation Institute   **Web Developer**   **January 2019 - May 2019**
- Developed visualizations on the US map with support for downloading public transportation projects data across the US, which enables business analysts to predict cost trends and profits from the previous projects, ultimately resulting in spending the minimal cost and gaining the maximum profits from the ongoing and future projects by the Maryland Department of Transportation.

OPIS by IHS Markit   **Software Engineer Intern**   **June 2018 -August 2018**
- Built a data crawling system to **legally** pull the up-to-date Australian oil prices from the webpages of oil companies in Australia and prepare price reports for the customer oil companies in the US, and so the customers can analyze oil prices in Australia and competitively enter the Australian oil market.

Projects

Wildfire Alert   **Website Frontend and Hardware Developer**   **HoyaHacks Spring 2019**

Worked with a team at the Georgetown University hackathon to build an alert system to detect wildfire in the woods before the satellites using sensors. The alert system shows the location of the wildfire detection on the map so that the authorities can quickly reach the location of the fire and extinguish the fire before it spreads more.

MyClimate   **Android App Developer**   **Bitcamp Spring 2018**

After a long cold winter, we were expecting a warm weather and created an Android application with a team at the University of Maryland hackathon to remind the user when his or her expected weather is coming, and so the user can expect a specific type of weather accurately and hassle-free, and enjoy dates outdoors.

Programming Languages & Technologies

Java, Python, JavaScript, C#, SQL, NoSQL

Awards & Achievements

Montgomery College Dean's List, Phi Theta Kappa Honor Society Membership, Dr. Harry Harden, Jr. Student Academic Excellence Award, Honor Associate Graduate Student