Diptin **Dahal**

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Education

University of Texas at Arlington   *Arlington, Texas*
B.S. in Computer Science and Engineering [3.5/4.0]   *Class of 2020*
- Outstanding Freshman Scholar; Dean's Engineer Meister Family Scholar;

Highly skilled and proficient in:	Python, JAVA
Frameworks/Libraries/Tools:	Flutter(Android App Development), Flask, TenserFlow, OpenCV, Git, Unix/Linux, , Bash Scripting, Agile/Scrum, Networking(DNS,TCP/IP)

Work Experience

First Command   *Fort-worth, TX*
Software Engineer   *Jun. 2019 - Present*
- Collaborated with a scrum team in an agile development cycle to convert 10 days' worth of manual insurance processing to automated processing using ASP.Net Framework web application, JavaScript, C# etc.
- Researched and created an extension for "auto code highlighting" feature for company specific scripts using TextMate grammar template, which made making changes to script files much easier for all the developers.
- Collaborated with a team to implement Oauth 2.0 authentication and completed the refactoring of legacy code, which helped in the transformation of applications to work on D365 cloud.
- Wrote comprehensive unit tests and mocked external dependencies.

University of Texas   *Arlington, TX*
Teaching Assistant   *Aug. 2018 - May. 2019*
- Acted as a liaison between students and professor, and supervised new TAs.
- Worked with students to streamline their final year projects.

University of Texas   *Arlington, TX*
Supplemental Instruction Leader   *Aug. 2017 - May. 2018*
- Conducted study sessions and encouraged student participation.
- Reported outcomes and suggested improvements to SI supervisors and professor.

Activities

Students for Exploration and Development of Space, Student Chapter   *Arlington, TX*
President   *Aug 2018 - May 2019*
- Provided overall leadership and direction to the club organization.
- Maintained contact on club activities with advisors and student organization office.
- Initiated cube satellite development project and participated in conferences.

UTA Hackathon 2019   *Arlington, TX*
Organizer   *Aug 2019-Oct.2019*
- Maintained regular communication, and coordinated with the judges, the team members, and the sponsors.
- Empathized participants and encouraged them.

Projects

Ricetta   Developed a data scraping tool using beautiful soup library to extract food data from web. Created search feature using flask and suggested result as per TF/IDF scores. Preprocessed food related training pictures with NLTk and used word2vec to get word relations for searching relevant pictures for each queries.

SJF   Designed a class-best android game using Unity. It was submitted to the annual Game Developer's Conference. In a team of four, I designed assets using Inkscape, coded game AI to add different difficulty level, and UI controller in C#. (StickJumpForce)

Pew3   Developed the Bluetooth system for the project in Unity using C#. Used arduino IDE and arduino documentations and Bluetooth sensor's (HC-05) software and hardware configurations to initialize hardware. Built an android application that handled real time communication with Firebase cloud and communicated to Dand from the other sensors using bluetooth.