**AKSHAY KUMAR M.S.**

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**Education**

**2014-Present Cullen College of Engineering, University of Houston Houston, TX**

*Candidate for Bachelor of Science in Computer Engineering, Class of 2018 (Coursework listed below)*

* GPA - 3.52.
* Dean’s list for Spring 2015, Fall 2015 and Spring 2016.
* Elected member of the Student Government Association - Helped introduce healthy eating options in the University Center and increase spaces for parking which were some of the major issues faced by students.

**2013-14 PES Institute of Technology Bangalore, India**

*Pursued* *Bachelor of Engineering for a year, before transferring to the University of Houston*

* GPA - 9.78 out of 10.
* Won 3rd prize at the IEEE Code 2k12 hackathon sponsored by Microsoft.

**2011-13 Venkat International Public School Bangalore, India**

*11 and 12 grade (Took classes in Math, Physics, Computer Science, Chemistry and English)*

* Scored 93.8% across all subjects in the All India Senior School Certificate Examination.
* Was one of the 6 participants selected by the school to compete for the State Math Olympiad, 2011.

**Technical Skills**

* **Programming languages:** Java, C++, Python, C , MATLAB, LabVIEW, Basic, Visual Basic, Fortran, SQL
* **Publishing languages:** HTML, JavaScript
* **Software development tools:**  Eclipse, MATLAB, Code::Blocks
* **Operating Systems:** Windows

**Projects**

**University Of Houston**

**Sudoku Grid Gui**

* Designed and developed a Sudoku game using Java, allowing the user to solve upto 300 different puzzles of varying difficulty.
* The difficulty levels were automatically determined based on the difficulty of the previous puzzle and the time taken by the user to solve the puzzle.
* The UI was developed using the Swing toolkit.

**Online Banking System**

* Developed a simulation of an online banking system which allowed the user to log in using his credentials and perform the following actions - withdraw cash, deposit cash and check account balance.
* The algorithms were implemented using Java and the GUI was developed using the Swing toolkit.

**Zumo Advanced Maze Solving**

* Worked on developing the software (using LabVIEW) for a robot that could navigate a maze by using multiple light sensors installed at the bottom of the robot.

**Independent projects**

**Web Traffic Data Set**

* Developed a model and learning algorithm using Python to predict web traffic based on historical data for a fictional startup.
* Divided the data set into training and testing sets and tested multiple models to select the one with the lowest error.

**Relevant Education and Coursework:**

* **ECE 1331 - Computer and Problem Solving** : Introduction to personal computers and engineering workstations, techniques and standards for networked computers, computer-based tools for engineering problem-solving, programming constructs, algorithms and applications.
* **ECE 2300 - Circuit Analysis :** Electric circuit analysis techniques. Inductors, capacitors, first order circuits. Sinusoidal analysis.
* **ECE 3337 - Signal and System Analysis :** Time and frequency domain techniques for signal and system analysis. Engineering applications of the convolution sum and integral, Fourier series and transforms, and Laplace transforms.
* **ECE 3441 - Digital Logic Design :** Initial course in Boolean algebra, combinational logic, sequential machine analysis and synthesis.
* **COSC 1320 - Introduction to Computer Science II :** Object-oriented programming, elementary data structures, and the C++ programming language. Introduction to other languages and GUI programming.
* **ECE 3331 - Programming Application in ECE :** Procedural programming in C and C++, with applications in electrical and computer engineering. Introduction to FORTRAN.

**Additional Interests & Activities**

* Avid traveler - Lived in 3 countries and travelled to 12 countries across 3 continents.
* Enjoy playing cricket - Was part of my school cricket team that won the state championship.
* Helped wash dogs and cats and connected them with new owners during the Houston Humane Society volunteering event.
* Enjoy playing chess and piano in my spare time.