

# Kartik Gupta

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## EDUCATION

### Bachelor of Science in Computer Science

May 2019

University of Texas at Arlington (UTA). GPA **3.9/4.0**

## SKILLS

- Proficient: Java, C++, C, Microsoft Office Tools
- Intermediate: SQL, MATLAB, Linux, Java Database Connector (JDBC), Functional Programming
- Beginner: C#, Android Development, Assembly Language, HTML5, Python

## PROJECTS

### Bash Shell

October 2017

- Implemented basic functionality of a bash shell in C in Linux
- Concepts learned: forking, exec, process management

### Airline Database Management System

April 2017

- Created a database system and command line interface for an airline to schedule flights, hire staff, and customize trips
- Implemented using SQL and Java Database Connector (JDBC) on a Linux based server

### Chatting Application

February 2017 - May 2017

- Programmed a C++ multi-threaded application that connects users to chatrooms
- Used ncurses library for GUI in Linux, and OpenSplice data distribution service for data connectivity
- Followed Incremental Software Development methodology in a team of five members

### Store Management System

October 2016 - December 2016

- Built a system for managing robotics store using Fast Light Toolkit (FLTK) for GUI in C++
- Used Agile Project Management in a team of four members

## RELEVANT COURSEWORK

- Object-Oriented Programming
- Fundamentals of Software Engineering
- Operating Systems
- Algorithms and Data Structures
- Database and File Structures
- Programming Languages

## SUPPLEMENTAL WORK EXPERIENCE

### University Tutorial and Supplemental Instruction (UTSI) at UTA

#### Supplemental Instruction Leader

September 2017 - Present

- Lead group sessions and promote independent learning amongst students for Data Structures and Algorithms course

#### Peer Educator

February 2017 – Present

- Tutor college students in various courses for Computer Science, Math, and Physics