

# Akhil Yerabati

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## EDUCATION

**THE UNIVERSITY OF TEXAS AT ARLINGTON** | Master of Science, Computer Science, GPA 3.70

May '19 | Arlington, Texas

**Specialization:** Software Engineering and Databases

**Programming Coursework:** Algorithms and Data Structures, Software Engineering Management, Web Data Management, Networks, Testing, Cloud Computing, Database Systems, Distributed Systems, Information Security, Agile & Scrum Methodologies

**Amrita Vishwa Vidyapeetham** | Bachelor of Engineering, Computer Science and Engineering, GPA 3.3

May '17 | Bangalore, India

**Major Coursework:** Operating Systems, Theory of Computing, Computer Architecture, Computer Graphics

## TECHNICAL SKILLS

- **Languages:** Java, Python, HTML5, CSS, JavaScript, PHP
- **Databases and Technologies:** SQL, XML, Oracle 9i-11g
- **Cloud Technologies:** Google Cloud, AWS, Microsoft Azure, IBM Bluemix
- **Applications:** Eclipse IDE, Wireshark, PyCharm, MySQL Workbench, Android Studio, Sublime, Atom, Visual Studio Code
- **Software Tools/Frameworks/ Project Management Methodology:** Agile, Scrum, Waterfall, Iterative, Bootstrap 4, CodeIgniter, XAMPP
- **Virtualization Tools:** VirtualBox, RedHat
- **Software Testing Tools:** JUnit (ParamsRunner and Parameterized), JaCoCo, EasyMock, PIT
- **Operating Systems:** Windows, MacOS, Linux

## WORK EXPERIENCE

**Graduate Research Assistant | University of Texas at Arlington**

June'18 – April'19 | Arlington, Texas

- Designed relational databases for small, medium and large datasets.
- Analyzed MySQL server production databases on regular basis.
- Encrypt Windows and Apple Machines with SecureDoc, give access to users, and recover keys and passwords.
- Build and connect users and teams using the Microsoft Teamwork platform and support it on different platforms for departmental groups.
- Assisted and supported issued related to queries and databases.
- Performed code review and identified functional gaps in end-to-end application development life cycle.
- Design implement and maintain java application within all phases of Software Development Life Cycle (SDLC).
- Provided technical support and consultation for Java web services applications.
- Installed administered and updated Oracle database tools and systems.

**Intern | Gambit Sports**

December'15 – January'16 | Bangalore, India

- As a project Intern, I worked on the Front-End Web Development of the company's flagship product (<http://sportscafe.in/>).
- Front-end development using latest **HTML5** and **CSS3** techniques, backed JavaScript frameworks to enable optimum user experience throughout the site.
- Used HTML5 semantic tags and CSS3 features for the development.
- Consulted and documented UI best practices and code standards.
- Maintained active conversation with the client to ensure the site met his needs.
- Researched industry trends and websites to provide top quality design.

## PROJECTS

• **Pet Store Web Application**

December '18 | University of Texas at Arlington ([See Project](#))

The website will enable the clients and businesses to have an account and access their pet's account.

- It was developed using **HTML5**, **CSS**, **JavaScript** and **XAMPP( phpMyAdmin & MySQL Database )**
- Validations for the website were done through HTML5, JavaScript and PHP
- JavaScript was used for client-side scripting while PHP was used for Server-side scripting.
- The web application is deployed on **UTA Cloud**.

Alternatively, the website was designed using **CodeIgniter** Framework using XAMPP for localhost. Corresponding controllers, models, and views were used to implement emailing of new users with their username and password, registration of new users by inserting data into the database, retrieving information about their respective accounts.

- **Software Testing**

*December '18 | University of Texas at Arlington*

- Developed Test Cases for various real-world applications to test the accuracy of the design.
- Implemented the test cases using **JUnit**, **JaCOCO** and **PIT** and ensured all the test cases passes and full code coverage is achieved.

- **Cloud Computing**

*June '18 | University of Texas at Arlington*

The applications were developed in **Python** using Flask App.

- Microsoft Azure: Upload files on Azure database & Buckets & perform CRUD operations on data.
- AWS Auto Scaling: Testing performance by creating traffic using JMeter and Scaling up and Scaling down AWS EC2 Instances.
- AWS S3 & RDS: Upload and download files on AWS S3 Buckets. Upload CSV files & perform CRUD operations on RDS.
- IBM Bluemix: K means clustering of data.

- **University Bazaar System**

*April'18 | University of Texas at Arlington ([See Project Documentation](#))*

University bazaar system is an android application developed using **Agile and Scrum Methodologies**. The application's features are: Join/Create Clubs, Sell/Buy/Rent Goods (e-commerce application), Communication- Group/Personal Messaging, and News Feed - Read/Add about college events.

- Performed the role of a developer as well as Scrum Master in a team of 5.
- The application was programmed in Java and the backend operations were done using MySQL database.
- Hands-on experience in Pair Programming as the team was split into two different pair's for every scrum (ideally 2 weeks).

- **Chat Room System**

*February '18 | University of Texas at Arlington*

This system enables communication between different clients and servers using sockets and two-phase locking protocol. Each client process will connect to the server over a socket connection and register a user name at the server. The server would be able to handle all clients concurrently and display the names of the connected clients in real time. Messages exchanged between server and client use HTTP formats tags: Host, User-Agent, Content-Type, Content-Length, and Date. The system was developed in **Java** using **Java Swing GUI**.

- **Car Rental Company Database Application**

*December '17 | University of Texas at Arlington*

The design and implementation of a database for keeping track of information about a car rental company.

- The EER schema diagram was designed for this database application.
- Then, mapped the EER schema into a relational database schema and implemented it on MySQL.
- Designed GUI for the user to rent, add, return car's and generate reports of the car.
- All the data was loaded into the database and all transactions were updated in real time.
- Application developed using: **PHP, MySQL, and XAMPP**.

- **Budget Estimation using COCOMO**

*December '17 | University of Texas at Arlington*

COCOMO was used to estimate and evaluate the budget incurred for developing a web-based e- commerce application. This Project was part of Software Engineering coursework.

## **ACHIEVEMENTS & HONORS**

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- **In-State Tuition Fee**

*June '18-Present | University of Texas at Arlington*

Awarded 50% scholarship for academic performance.

- **Food Service Coordinator | Indian Cultural Council**

*May'18 | University of Texas at Arlington*

- **Secretary | Amritadhara - Student Council**

*May'16 | Amrita Vishwa Vidyapeetham*

*As a secretary, organized various national level and university level fests and events - both technical as well as cultural.*

- **SAP Student Brand Ambassador**

*May'16 | Amrita Vishwa Vidyapeetham*

- **Executive Member | Lekhani – Press Club**

*May'15 | Amrita Vishwa Vidyapeetham*

*As Executive Member of Press and Literary Club was on the college magazine editorial board.*