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Work Auth. – US Citizen

**Akshar Patel**

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Portfolio: <https://akshar-patel-portfolio.herokuapp.com/>

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## EDUCATION

**Bachelor of Engineering in Computer Science**

June 2022

The University of Texas, Arlington.

## TECHNICAL SKILLS

**Programming languages:** Java, JavaScript, Python (NumPy, Matplotlib, SymPy, sklearn, pandas), C#, C, C++.

**Web Development Tools:** ReactJS, Redux, JavaScript, HTML, CSS, JSX, Android Studio, XML, Rest API, XAML.

**Database Technologies:** SQL (MySQL, MySQL Workbench, SQLite), NoSQL (Mongo DB, Firebase)

**Other Technologies:** Spring Framework, WPF, Jenkins, Git, Visual Studio, VS Code, Eclipse, GitHub, MATLAB, MS Word, Excel & PowerPoint.

**Networking Protocols:** TCP/IP, UDP, HTTP, HTTPS, FTP.

**Operating Systems:** MacOS, Windows, Ubuntu.

**Courses:** Object-Oriented Programming, DS and Algorithms, Theory of Computation, AI, Database (RDBMS), Fundamentals of Software Engineering, Computer Networks and Organizations, Linear Algebra for CS, Operating Systems, Prog. Fundamentals (Java), Engineering Probability & Stats, Computer Graphics, Soft.Proj.Mgmt.

## EXPERIENCE

**Mayo Clinic** [Software Developer Intern, full-time - Rochester, MN]

Jun 2021 – Oct 2021

### Cardiology health data management tool

- Built reusable react components for cardiology data tracking tool in an agile development setting in multiple sprints.
- Utilized Azure for scrum-based activities, backlog tracking, deployment and code collaboration.
- Actively participated in daily scrums, sprint planning meetings, review meetings, unit meetings, etc.
- Developed modifiable forms leveraging rendering data coming from backend api calls.
- Experience working with redux for centralized state management and custom/in-built hooks in React.
- Worked with styled library for component level UI styling and wrote test cases with jest and enzyme testing libraries.
- Environments: React, JavaScript, Redux, Styled, Jest, Enzyme.

### Server Monitor Tracking System

- Developed dynamic WPF application for continuous server status checking.
- Made responsive status check features through asynchronous programming in C#.
- Experienced waterfall like development approach.
- Excelled in building customized templates with data binding properties.
- Environments: WPF, C#, XAML.

## PROJECTS [GitHub: <https://github.com/aksharpatel123>]

**TraderBot** [Java, Python, XML, Android Stock Market Advising Application]

- Designed UI with Android Studio, XML and Java in backend. Utilized Firebase Realtime DB with Authentication feature managing user data like login/registration details and in-app personalized data.
- Worked with Python API requests to fetch real-time JSON Data with all-time stock prices that includes high, low, volume, etc. for any company stock the user wish to see. The data is then organized to render for UI as needed and used the stock price as data set to plot real-time data charts with python [matplotlib].

**Employee Database Management System** [Python, MySQL]

- Created a company relational database using MySQL Workbench, populated with data and managed through MySQL connector python library. Managed employees' data in multiple tables with a primary and foreign key constraints.