

SHUBHAYU SHRESTHA

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12825 Parade Grounds Ln, Fort Worth, TX 76244

EDUCATION

The University of Texas at Arlington	Bachelor of Science, Software Engineering Overall GPA: 3.84/4.0 <i>College of Engineering Dean's List</i> <i>Maverick Academic Scholarship</i>	August 2019 - December 2022
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TECHNICAL SKILLS

- **Languages:** Python, C++, C, Java, TypeScript, JavaScript, CSS, C#, R, ARM Assembly
- **Frameworks:** Angular, Ionic, Bootstrap, NgRx, Socket.io
- **Backend:** Flask, Node.js
- **Data:** SQLite3, Google Firebase, MongoDB
- **Technologies:** Kubernetes, Docker, Git, GitHub, Azure DevOps, JIRA, Unity, Unreal Engine, Figma, Android Studio, Drupal, ROS Kinetic, Tkinter, Junit
- **Operating Systems:** macOS, Windows, Linux/Ubuntu

WORK EXPERIENCE

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| Full Stack Developer Intern, Lockheed Martin Corporation – Fort Worth, TX | May 2022 – Present |
| <ul style="list-style-type: none">• Developed a Minimal Viable Product (MVP) using Angular, Flask, Socket.io, Kubernetes, and Docker to provide an interface for calculating JADO Readiness for multiple projects and systems.• Gained experience in development of AR/VR simulations through Unity.• Developed following the agile development process and used JIRA to manage stories. | |
| Undergraduate Researcher, Heracleia Human-Centered Computing Lab – Arlington, TX | April 2021 – May 2022 |
| <ul style="list-style-type: none">• Assisted PhD students in their research projects focusing on machine learning and robotics considering human computer interactions.• Worked on a project that focused on developing an automated wheelchair utilizing contrastive learning methodologies to distinguish whether a path was traversable or not utilizing ROS Kinetic and Python scripts for data collection. | |

PROJECTS

- Bin Buddy** – Full Stack Developer, UI Designer, & Scrum Master
- **Tools Used:** Ionic (Angular), Google Firebase, Figma, Microsoft Azure DevOps
 - Created a Progressive Web Application that allows residents to track garbage trucks, view an estimated arrival time, receive notifications when their garbage has been collected, and view proper waste disposal methods.
 - This application also includes a driver side interface in which garbage truck drivers can view their routes and request vehicle maintenance, ultimately improving efficiency for waste management companies.
 - Designed resident and driver side interfaces using **Figma**, followed the **Agile** development process and managed stories using **Microsoft Azure DevOps**.
- Car Rental Database** (<https://github.com/shubshres/CarRentalDatabase>)
- **Tools Used:** Python, SQLite3, and Tkinter
 - Developed a car rental management program that would assist car rental companies to manage their fleet and handle invoices.
 - This program includes a vehicle search function where users can search their vehicle inventory through descriptions or VIN numbers and access daily rates and search for customers to view their remaining balance owed to the company, what vehicles they have rented, and their details.
- Stock Trading Alert** (<https://github.com/shubshres/Stock-Trading-Alert>)
- Created a stock trading alert program in **Python** that will send an SMS message if a stock **value changes** by over 5%.
 - This program was created utilizing the Alphavantage API for the stock data, News API for the news articles, and the **Twilio API** to send the SMS messages to send the user the change in stock value.
 - This project is currently being hosted on **PythonAnywhere** for it to run 24/7.

PROGRAM COURSEWORK

- Completed and excelled in courses such as Software Design Patterns, Software Testing, Information Security, Network Organization, Theoretical Computer Science, Algorithms and Data Structures, Object-Oriented Software Engineering, and Database Systems and File Structures.