

# TANISH GARG

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## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, SQL, JavaScript, HTML/CSS, R, Rust, ROS, Arduino

**Frameworks:** React, Preact, Angular, NodeJS, Django Web Applications, Flask, JUnit, WordPress, Material-UI, FastAPI

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, Amazon Web Services, Microsoft Azure, Oracle Cloud Infrastructure (Block Storage, Object Storage, Load Balancers), Linux, Kubernetes, Google Suite

**Libraries:** pandas, SciPy, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, tidyverse, dplyr, PySpark, Scala, Kafka

## EDUCATION

**University of Dallas (Irving, TX)**

Aug 2022 – May 2025

Bachelor's of Science in Computer Science

Departmental GPA: 4.0

Relevant Coursework: Compilers, Operating Systems, Discrete Structures, Analysis of Algorithms, Professional Communication

Honors Include: Dean's List, Trustee Scholarship (Highest Merit Based Scholarship)

## PROJECTS

**Pharma-Bot: Simulated Self-Navigating Robot** | *Algorithms, Artificial Intelligence, IoT, ROS, Python, C++, AWS (LightSail, S3)*

- Led a team of 4 to develop Pharma-Bot, an award-winning project in the *International AWS Hackathon*.
- Developed Pharma-Bot to autonomously navigate a simulated hospital environment with dynamic obstacles to deliver medicines to patients, implementing both A\* and Dijkstra algorithms for optimal pathfinding, which resulted in Pharma-Bot being recognized as *the fastest robot in the Hackathon*.
- Exhibited a deep-understanding of Linux Operating Systems by running Pharma-Bot on a Bare-metal machine.

**Automating Agriculture** | *Artificial Intelligence, Data Structures, Arduino, C++, Big Data, AWS (IoT, LightSail)*

- Led a team to design & develop automatic Sowers, Irrigators & Harvestors, winning *National Engineering Contest*.
- Developed end-to-end integrated autonomous robots for indoor agriculture with cloud-hosted monitoring & data reporting.

## EXPERIENCE

**Software Engineering Contractor**

Aug 2023 – Present

*RealManage Family of Brands*

*Plano, TX*

Collaborate with cross-functional teams (AP, AR & Business Intelligence) to design, code, and test programmed on-demand platform/project solutions.

**Statistics with R Tutor & Grader**

Aug 2023 – Present

*University of Dallas*

*Irving, TX*

Collaborate with instructors to develop course materials, and develop R programs for auto-grading.

**Software Engineering Intern**

May 2023 – Aug 2023

*RealManage Family of Brands*

*Plano, TX*

- Created a Real-Time Time sheet Management System using Appsheet & Google Database for efficient tracking of project hours and enhancing transparency with management.
- Automated Reconciliation processes using AI & Excel VBA, reducing over 200 hours of manual effort by automatically matching Bank EFT auto-payments to Vendor Invoices and generating missing invoice documents for unmatched payments.
- Developed a Centralized Spreadsheet Software for streamlined data synchronization across the system.
- Designed a system to automatically update & notify current & prospective Insurance Customers, saving 32 man-hours monthly for the Insurance Department.

## ACTIVITIES & LEADERSHIP

**President, Association for Computing Machinery (ACM)** University of Dallas

Aug 2023 - Present

**Vice-President, Data Analytics** University of Dallas

May 2023 - Present

**Team Leader:** Amazon Web Services Build-On ASEAN, Engineering Innovation Challenge, HackDFW, DataFest

## HONORS & AWARDS

**Amazon Web Services (AWS) International Hackathon Champions:** Team Leader & AI Developer

**Engineering Innovation Challenge National Champions:** Team Leader, IoT Developer & Project Executive

**Valedictorian of High School Senior Class 2022:** Ranked 3rd Nationally - Singapore