

# TANISH GARG

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## TECHNICAL SKILLS

**Languages:** Rust, Java, Python, C++, C#, SQL, Go, JavaScript, HTML, CSS, R, Visual Basic, Bash

**Frameworks:** React, AngularJS, NodeJS, Mongo, Django, Flask, WordPress, FastAPI

**Developer Tools:** Git, Docker, Kubernetes, Google Cloud Platform, Amazon Web Services (Lambda, EC2, Redshift, S3), Oracle Cloud Infrastructure, Linux, PowerBI, ROS, JUnit, Visual Studio, VB Code

**Libraries:** Axum, Pandas, SciPy, NumPy, Matplotlib, TensorFlow, PyTorch, Scala, Keras, NLTK

## EDUCATION

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

Graduation: May 2025

Bachelor's of Science in Computer Science

GPA: 3.9

Relevant Coursework: Compilers, Operating Systems, Discrete Data Structures, Algorithms, Linear Algebra, Communications

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

## EXPERIENCE

**Software Engineering Intern**

May 2024 – Aug 2024

*InfluxData*

*Frisco, TX*

- Contributed to the development of InfluxDB 3.0's granite monorepo for Account and User Experience (AUX) Global Management Services, managing customer-facing and internal UIs, APIs, and authentication.
- Played a key role in migrating the AUX monorepo from Go to Rust, enhancing system performance and reliability by rewriting services in Rust. Actively participated in bug fixing and codebase architecture improvements.
- Consistently applied and expanded knowledge of programming best practices within a professional environment, showcasing continuous improvement in technical and collaborative abilities.

**Software Engineering Contractor**

Aug 2023 – Present

*RealManage Family of Brands*

*Plano, TX*

Developed over 10 automatized metric reports & employee analysis programs with PowerBI for upper management. Automated over 40 hours of accounting tasks with cross-functional teams (AP, AR & BI) and programmed 4 on-demand platform/project solutions.

**Software Engineering Intern**

May 2023 – Aug 2023

*RealManage Family of Brands*

*Plano, TX*

- Automated Reconciliation processes using Excel VBA, reducing over 300 hours of manual effort by automatically matching Bank EFT auto-payments to Vendor Invoices and generating missing invoice documents for unmatched payments.
- Designed a system to automatically update & notify current & prospective Insurance Customers, saving 32 man-hours monthly for the Insurance Department. Additionally, created detailed documentation for ease of use.

## PROJECTS

**Pharma-Bot: Simulated Self-Navigating Robot** | *Artificial Intelligence, ROS (Python, C++), AWS (Lambda, EC2, Lightsail)*

Led a team of 4 to develop Pharma-Bot, an award-winning project in the *International AWS Hackathon*. Designed Pharma-Bot to autonomously navigate a simulated hospital environment with dynamic obstacles to deliver medicines to patients, implementing algorithmic optimal pathfinding, which resulted in Pharma-Bot being recognized as *the fastest robot in the Hackathon*.

**Automating Agriculture** | *Arduino, C++, MySQL, 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.

## ACTIVITIES & LEADERSHIP

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

Aug 2023 - Present

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

## HONORS & AWARDS

**Amazon Web Services (AWS) International Hackathon Champions:** Team Leader & Software Engineer

**Engineering Innovation Challenge National Champions:** Team Leader & Software Engineer

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