

# Vedansh Surjan

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Dallas, Texas, 75252

## EDUCATION

### The University of Texas at Dallas

Master of Science, Computer Science

Coursework: (CS 5343) Data Structures and Algorithms, (CS 6363) Design and Analysis of Algorithms

May 2025  
GPA – 3.8/4.0

### Birla Institute of Technology and Science Pilani (BITS Pilani), India

Master of Science, Mathematics – (INSPIRE Scholarship)

Coursework: Object Oriented Programming, C Programming, Computer Architecture

July 2020  
GPA - 3.6/4.0

## PROFESSIONAL EXPERIENCE

### Mimosa Networks, Dallas, USA

Software Engineer Intern

May 2024 - May 2025

- Improved REST API response times by 30% for Mimosa's MMP platform, enabling efficient device and network management for over 300,000 devices while deploying the solution on AWS EC2 to enhance scalability.
- Upgraded 25 microservices from Java 8 to Java 17 and **Spring Boot 1.5 to 3.3.1**, cutting production incidents by 40% through rigorous TDD with unit, integration, and end-to-end tests.
- Added custom Grafana dashboards to monitor Kafka messages failure rates to brokers outside the organization using Prometheus and Redis.

### Société Générale Global Solution Center, Bangalore, India

Senior Software Engineer

Aug 2020 - July 2023

- Engineered a scalable and robust full-stack inventory-finance web application for the European market by architecting Java Spring Boot 4 microservices in an **Agile** environment, driving a 35% revenue increase.
- Reduced API latency by 50% (900 ms → 450 ms) by implementing third-party response caching, adding pagination for large payloads, and coordinating with cross-functional teams, enhancing system performance and user satisfaction.
- Improved microservices security by implementing an enhanced authentication mechanism using **OAuth2** across all services, reducing vulnerabilities by 80%.

### Aditya Birla Group, Bangalore, India

Computer Vision Intern

June 2019 - June 2020

- Spearheaded a project for real-time helmet-wearing detection in manufacturing plants with over 90% accuracy at 60 frames per second using Intel's OpenVINO tool.
- Published a [research paper](#) on my work for the irregularities on one of the biggest databases used for training machine learning models in the fashion industry – DeepFashionV2.

## PROJECTS

**UTD ISA Mobile App** – Swift, PostgreSQL - [https://github.com/karlos37/utdisa\\_xcode/](https://github.com/karlos37/utdisa_xcode/)

June 2025 – July 2025

- Built an iOS app in Swift to list upcoming ISA events, manage airport-pickup requests, and launch a student housing marketplace—streamlining communication and replacing fragmented WhatsApp workflows.

**UTD Trends** – React, Java, MongoDB - <https://github.com/UTDNebula/utd-trends>

Jan 2024 - May 2024

- Built a web application to compare courses offered at UTD by different professors to help students enroll in courses at UTD, providing students with unique insights and reducing the enrollment process time by 50%.

## SKILLS

**Languages:** Java, Kotlin, C++, JavaScript, TypeScript, Python, Go, SQL

**Databases:** PostgreSQL, MySQL, Redis, Cassandra, MongoDB, Oracle, H2, Power BI, Tableau, Power Query, Power Apps

**Tools:** Elastic Search, Docker, Kafka, Git, Maven, Camunda, Flutter, RabbitMQ, Figma, Confluence, Jira, SharePoint, Canva,

**Technologies:** AWS (EC2, S3, Redshift), React, Angular, Azure, REST API, Distributed System, NumPy, Panda, EDA, Agile

**Creative and Soft Skills:** Decision making, Root Cause Analysis, Problem solving, Strong written and verbal communication.

**Leadership:** President - UTD Indian Students Association, President – Maharashtra Mandal – BITS Pilani