

# Kunal Desai

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## EDUCATION

### Master of Science in Computer Science

Arizona State University

June 2025

Mumbai, India

- Coursework: Foundation of Algorithms, Software Security, Digital Video Processing

### Bachelor of Engineering in Computer Science

Thadomal Shahani Engineering College

October 2020

Mumbai, India

- Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture and Organization, Computer Networks, Web Development, Machine Learning, Object Oriented Programming, Mobile Computing
- GPA: 8.49/10

## EXPERIENCE

### Software Development Engineer

Deutsche Bank AG

September 2020 - July 2023

Pune, India

- Developed and maintained an Invoice Presentment project web (Spring, Java, Hibernate, React) & app (Flutter) and effectively onboarded customers on it.
- Collaborated with diverse fintech partners, leveraging APIs to offer a wide range of financial solutions such as Payment Gateway and online NACH processing.
- Developed multiple microservices using the Spring framework, utilizing GRPC for efficient internal communication and RESTful APIs for external interactions.
- Enhanced multiple services to achieve a nearly 50% reduction in processing time.
- Managed GCP infrastructure (CloudSQL, Cloud Run, Cloud Functions, GCS) and achieved a 65% cost reduction.
- Enhanced security by 80% through the implementation of Sentinel policies, firewall rules, and Cloud Armor measures.
- Collaborated with and provided training to two interns as part of the Deutsche Bank buddy program.
- Operated within an agile work environment, actively engaging in daily meetings, achieving frequent releases within a single sprint, and utilizing JIRA for issue tracking

### Software Developer Intern

GreekSoft Technologies

May 2019 - December 2019

Mumbai, India

- Automated ETL processes across millions of rows of data for thousands of stocks using dataflow, reducing manual work by 20%.
- Designed several robust RESTful APIs for data analysis tasks, utilizing ReactJS, NodeJS, and Flask.
- Manipulated large unstructured external and internal datasets, converting it into a queryable format, resulting in a 10% workload reduction for the machine learning team (Python, SQL).
- Implemented time series forecasting, clustering techniques, and sentiment analysis of news and tweets for various stocks using Google Datalab.
- Automated CI/CD pipelines using Google Cloud Build and decreased development time by 75%.

## PROJECT EXPERIENCE

### Sign Language Recognition and vice versa, BE Project:

Thadomal Shahani Engineering College

July 2019 - July 2020

Mumbai, India

- Created a database of 100 ISL videos and trained a gesture recognition model leveraging Google Mediapipe with a 65% accuracy rate.

- Integrated NLP techniques and used Sigml, HamNoSys Notation, and JASigning SiGML Service Client for real-time English to ISL translation with dynamic avatars, promoting accessibility and inclusive communication.

### **Jute Supply Chain Management**

**July 2020 - August 2020**

Jute Corporation of India, SIH 2020

- Generated a machine learning model using CNN and tensorflow to detect defects in jute textiles and grains and designed an imaging system for efficient jute grain capture.
- Created a supply chain management system deploying Hyperledger Fabric and IBM Red Node (IoT Simulator) improving transparency and efficiency b of jute product tracking and management throughout the supply chain by 80%

### **CSV Validator and Generator**

**March 2023 - March 2023**

<https://github.com/kunalmanishdesai/csv-validator>

- Built an open-source Java library with Java annotations to enable structural validations for Data Transfer Objects (DTOs), allowing users to define and enforce specific validation rules.
- Implemented CSV generation functionality, enabling users to easily generate CSV files from a list of DTOs, simplifying data export and manipulation tasks.
- Link: <https://github.com/kunalmanishdesai/csv-validator>

### **TricBuzz**

**September 2023 - Present**

- Building a cricket match monitoring project employing technologies such as Flutter, Spring , and MongoDB.
- The project aims to monitor cricket match scores, player details, and commentary, specifically tailored for gully cricket competitions in India.
- Focusing on adhering to coding best practices, including clean and simple coding techniques, and parallel development to ensure efficient progress , scalability and maintainability.
- Link: <https://github.com/kunalmanishdesai/tricBuzz>,<https://github.com/ravinamita/tricBuzz-backend>
- <https://github.com/ravinamita/tricBuzz-backend>

### **SKILLS**

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- Languages: C, Java, Python, HTML, CSS, JavaScript, HCL, Dart, Go, SQL,Bash,JSON,C#,TypeScript
- Technologies/ Frameworks: Git,Github,Spring, Maven, ReactJS, REST APIs, JUnit, Terraform, GCP, Spring Framework,React (UI,Front end), Draw.io, Cloud Dataflow, Flutter, Microservices, JPA, Hibernate, JIRA, Confluence, Shell,GRPC,Unity (game development).
- Other Skills: Slack, Team, Confluence,DevOps
- • Soft Skills: Enthusiastic, Teamwork, Problem solving, Work ethic, Time management, Communication skills,Project Management

### **AWARDS & HONORS**

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- Received the Leadership Award in recognition of my role as a Senior Committee Member of TSEC Codecell.
- Secured the First Prize in the Smart India Hackathon 2020.
- Completed Bandit challenge at <https://overthewire.org/wargames/>
- Attained certification as a Google Associate Cloud Engineer.
- Successfully completed the DB Cloud Engineers program with distinction.
- Served as a Judge for a Hackathon event organized by CSI - TSEC.