

# Anukriti Jaiswal

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## Education

### **Carnegie Mellon University**

Silicon Valley, California

Master of Science in Software Engineering

May 2024

**Coursework:** *Software Requirements & Interaction Design, Software Design & Architecture, Decision Analysis & Economics for Software Engineering, Data Science for Software Engineering, Cloud Infrastructure & Services, Metrics for Tech Products*

**Leadership:** *Teaching Assistant for Foundations of Software Engineering and Software Design and Architecture, Peer Mentor*

### **Birla Institute of Technology and Sciences**

Pilani, India

Bachelor of Engineering (Hons) - Computer Science (Minor- Data Science)

Jun 2022

**Coursework:** *Object Oriented Programming, Design and Analysis of Algorithms, Computer Architecture, Data Structures & Algorithms, Database Systems, Cybersecurity, Applied Statistical Methods, Machine Learning*

**Publications:** [Customer Segmentation using ML](#), [Automatic Student Performance Prediction using Data Mining Techniques](#)

**Leadership:** *Secretary General & Marketing Lead (Association of Computing Machinery BPDC), Chairperson (BITS Model UN)*

## Skills

**Programming Languages:** Java, JavaScript, TypeScript, Python, HTML/CSS, SQL

**Libraries/Frameworks:** Node.js, Next.js, React.js, Express, NumPy, Pandas, SciKit-Learn, Socket.io

**Tools:** Docker, AWS, GCP, Power BI, Tableau, SQL, Azure DevOps, Jira, Web Analytics, A/B testing, Agile, MongoDB (NoSQL), SQL, Restful APIs, Git/GitHub, Jest, Google Maps API, Strapi, Visual Studio, MS Office Suite, Figma

## Professional Experience

### **PricewaterhouseCoopers (PwC)**

Dubai, United Arab Emirates

Consultant (Software Developer, Intern Jan-Jul)

Jan-Dec 2022

- Collaborated with a cross-functional team to deliver an interactive multi-functional responsive **web** portal with **React** and **Redux** using **JavaScript/TypeScript (Next.js framework)** with Google maps API hosted on **Azure** web app services with **Docker**, Integrated and tested backend services (MuleSoft) to retrieve critical data and insights
- Managed Projects through **Agile, Jira** and Azure DevOps and participated in requirement-gathering sessions

### **Smart Twigs Consultancy Group**

Remote(Mountain View,CA)

Technical Summer Intern

June-Aug 2023

- Collaborated with stakeholders to define technical requirements and design solutions for complex Impact and Campaign features, following Agile/Scrum methodologies.
- Contributed to product enhancements through design recommendations, demonstrating an understanding of development's technical and user-facing aspects.

### **Lock&Stock**

Dubai, United Arab Emirates

Data Science Intern

Sep-Dec 2020

- Automated analytics by developing a smart dashboard using Dash, **HTML/CSS**, AWS MySQL and Python libraries
- Reduced decision-making and analysis time by 20% with trained **machine-learning** predictive models

## Academic Projects

- **Emergency Social Network:** Led a team to build a web app for flood disaster preparedness. Leveraged Node.js, JS (ES6), WebSockets, MongoDB, Express for real-time communication and data persistence.
- **CampuShare:** A scalable carpooling platform with a microservices architecture (Java, SpringBoot, MongoDB, react, JWT, PayPal API, Kafka) for the college community.
- **Big Data Processing Toolbox:** Developed a microservice-based platform with containerized development tools (Apache Hadoop, Spark, Jenkins, SonarQube, Jupyter) using Docker, Kubernetes (GKE) and Terraform for infrastructure-as-code, integrated Jenkins with SonarQube to automate quality analysis.
- **Breast Cancer Prediction using Machine Learning and Feature Selection via Metaheuristics:** Implemented RFECV, MIC, Genetic Algorithm (GA), and Particle Swarm Optimization (PSO) for their effectiveness in selecting informative features for parameter tuning for higher prediction accuracy.
- **Hands-On: Data Engineering:** ETL, Pipeline, DAGs using Apache Airflow ([Certificate Link](#))