# Ujval Prajapati

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## EDUCATION

**Arizona State University – IRA A. Fulton School of Engineering** — Tempe, AZ
Master of Science in Information Technology Project Management | GPA: 4.00 — Aug 2022 - May 2024
**Courses:** Analyzing Big Data, Info Systems Development, Software Quality Assurance and Testing, Data Structure and Algorithms, Data Visualization, Advance Big Data Analytics, Natural Language Processing for IT, Cloud Architecture Info Tech, Data in the Cloud Info Tech, Cloud Security and Ops for IT.

**Gujarat Technological University** — Ahmedabad, India
Bachelor of Engineering in Information and Communication Technology | GPA: 4.00 — Aug 2018 - Jun 2022

## TECHNICAL SKILLS

**Languages:** Python, Java, Typescript, Javascript, R, Shell scripting, C++, MySQL, PostgreSQL, Cassandra, MongoDB, HCL
**AI & ML:** Pytorch, Tensorflow, Keras, HuggingFace, OpenCV, Sklearn, NLTK, Spacy, Pandas, NumPy, Matplotlib
**Software:** ReactJs, NextJs, NodeJs, Flask, WebSockets, Firebase, Jest, Firebase, RabbitMQ, NATS, Redis, Postman, Jira
**Cloud & DevOps:** AWS, GCP, Terraform, Kubernetes, Docker, TravisCI, Jenkins, Sagemaker, Pinecone, Git, Github Actions
**OS:** Unix/Linux, Windows, MacOS

## WORK EXPERIENCE

**Dreamscape Learn** — Tempe, AZ
Software Engineering — Aug 2023 – June 2024
- Constructed 2+ scalable software features with C++ and Java to detect triggers in scenes. This tool enabled clients and users to identify duplicate assets and troubleshoot problems, enhancing testing efficiency by 20%.
- Implemented a CI/CD pipeline to streamline development and deployment processes.
- Delivered high-quality code within agile development sprints, consistently meeting or exceeding deadlines.
- Identified automation opportunities, resulting in a 50% reduction in manual processes.

**Drone Studio (ASU)** — Gandhinagar, India
Software Engineering, Research Assistant — Jan 2022 – Jul 2022
- Led the design and implementation of Python scripting solutions for DJI drones, enhancing flight control capabilities and reducing data capture time by 20%.
- Designed and instituted a system using OptiTrack motion capture cameras for enhanced drone positioning accuracy, achieving sub-millimeter precision and reducing error margins by 50%.
- Developed comprehensive system designs, integrating advanced motion capture and control algorithms to enhance overall drone performance and stability.

**InnoventX** — Ahmedabad, India
Co-founder, Lead Software Engineer — Sep 2019 – Jan 2022
- Pioneered a pre-seed startup that equipped 1300+ students with essential robotics and automation skills, addressing industry demands.
- Directed the comprehensive development of web apps leveraging the MERN stack, emphasizing responsive design and backend efficacy; realized a significant 30% reduction in load times and enhanced user satisfaction by 20%.
- Architected and provisioned a community platform on AWS EKS, ensuring scalability and reliability to support enrolled students in clarifying doubts and watching pre-recorded lectures.
- Spearheaded the Augmented Reality (AR) team and leveraged Android Studio, Unity, and Vuforia to develop a mobile app to view a 3D model and control a DIY robot with a Bluetooth virtual joystick.

## PROJECTS

**ASKGPT: Web Application** — Huggingface (transformers), Next.js, Node.js, Kubernetes, Docker, NATS Messaging
- Formulated a Chatbot app similar to ChatGPT by fine-tuning pre-trained Falcon-7B through Low-Rank Adaptation (LoRA).
- Integrated LLM with microservice architecture by utilizing Kubernetes and Docker container to improve throughput, reduce latency by approximately 25%, and increase availability.

**Burger Builder: Web Application** — React.js, MongoDB, Firebase, Redux, Node.js, Hooks
- Created a burger customization web app with React.js, using React Hooks for state management and React Redux for global states. Added a user authentication system for secure login/sign-up, integrated with backend services.
- Introduced an order placement feature post-authentication, improving user engagement and order efficiency. Project-link

## CERTIFICATES

- AWS Academy Graduate - AWS Academy Cloud Operations — Credly
- AWS Academy Graduate - AWS Academy Cloud Security Foundations — Credly