

# UTSAV CHAUDHARY

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**Portfolio:** [thatinsaneguy.netlify.app](https://thatinsaneguy.netlify.app)

**GitHub:** [github.com/UttU28](https://github.com/UttU28)

**YouTube:** [youtube.com/@ThatInsaneGuy](https://youtube.com/@ThatInsaneGuy)

I am excited to apply for the position, bringing extensive experience in **DevOps**, **Python** scripting, **CI/CD automation**, API development, and Python **bots**.

I have worked on projects where I enhanced **CI/CD** capabilities and toolchains across various technology stacks. I successfully implemented sustainable automated solutions for CI/CD adoption and led communities of practice to drive awareness of new technologies. Additionally, I have significant project experience with **Docker**, **Kubernetes**, and CI/CD using Azure DevOps and various **Azure services**. Have implemented Build, Test, and Release **Pipeline** with **code testing** and **scanning** tools. My certifications in **Microsoft AZ-400** DevOps for CI/CD further bolster my qualifications. My experience and skills will make a meaningful contribution to your team.

I look forward to discussing how my skills and experience align with your needs. Thank you for considering my application.

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## **PROJECT EXPERIENCE:**

**AutoGramBot (Video Create/Upload)** | Python, Flask, Azure, APIs, FFMPEG, Selenium [ [Instagram Profile](#) ]

Developed Python script to automate **Video Creation** and **Uploading** (English Teaching Reels) on **Instagram**. Collecting raw videos using **PlayPhrase.me API**. Implemented **FFMPEG** to seamlessly **overlay** logos, images, and merge multiple video clips with **professional-grade** transitions, achieving a polished, desktop-like editing quality. Integrated **WhisperAI API** for automated **subtitle generation**, ensuring accurate **timestamp** and relevance. Used **Pillow** and **FFMPEG** to embed **subtitles** into videos at **timestamps**. Utilized **Google Drive API** for storing and organizing finalized videos, ensuring **Free** and scalable cloud-based storage. Managed video URLs in Azure **Blob Storage** in **JSON** format. Orchestrated workflow using **Azure Logic Apps** to automate video processing tasks. Integrated Logic Apps with **Azure services** for seamless task coordination, ensuring efficient and timely video production. Automated Instagram video **uploads** and **configuration** using **Selenium**. Managed login, video upload, and description **configuration** on the Instagram platform, enhancing **social media content management**.

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**AssignmentX** | Python, NumPy, Pillow, Flask, Android Studio [

Developed "AssignmentX," an **Android / Web** application leveraging Python, NumPy, Pillow, Flask, and Android Studio to create handwritten-like assignments. Achieved over **5000+ downloads** on **Play Store**, with 200+ daily active users and **32K+ YouTube** views, showcasing widespread adoption and user engagement. Utilized **Pillow** and **OpenCV2** for precise image processing of alphabet images to **simulate** handwritten pages within the application. Implemented a **human behavioral algorithm** to enhance the authenticity of the **handwritten appearance** of generated assignments. Designed and deployed a **Python-based backend** server hosted on **AWS VMs**, facilitating communication between the **Android app** and **central server**. Integrated **Flask** to develop a **Web API** enabling seamless interaction between the **mobile app**, **website**, and **backend services**. Implemented **SMTP** for email functionality, enabling users to send assignments as **PDF** attachments directly from the application.

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**EDU-AR** | Unity 3D, Android Studio, AR Core, Tensorflow, Pandas, NumPy, Matplotlib, Keras

Developed "EDU-AR," an **Android** application targeting preschoolers with cognitive challenges, incorporating features for hearing and speech aid. Implemented **Augmented Reality (AR)** using **AR Core** in **Unity3D** and integrated Deep Learning models, specifically **CNNs** achieving 95% accuracy, utilizing **TensorFlow** and **Keras** for image processing tasks. Integrated **Google Vision API** for Handwriting Analysis **OCR** to facilitate automatic **recognition** and **interpretation** of handwritten content within the application. Assisted with **Sign Language interpretation**, enhancing accessibility for users with hearing impairments. Authored and published a paper in the international journal **IOSRJEN** (May 2021, Volume 11, Issue 5, E-ISSN: 2250-3021), detailing the technical advancements and educational benefits of the **EDU-AR** application.