

# HIMANSHU KHATARKAR

## Software Development Engineer 1

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## EXPERIENCE

### Software Development Engineer

#### Amazon

📅 Sept '22 – March '23 📍 Hyderabad, TS

- Led the development of highly **scalable**, highly **available** services, reducing system downtime by 40% and increasing customer satisfaction by 25%.
- Utilized **Java**, **AWS**, **TypeScript**, **HTML**, **CSS**, **Python**, **React.js**, **Kubernetes**, **Docker**, **MongoDB**, and **Spring Boot** to automate tax filing systems, benefiting 14 million European taxpayers.
- Designed **low-level** architectures for over five **microservices** following the **ACBDA Design pattern**, resulting in a 50% enhancement in code readability.
- Implemented **Test-Driven Development (TDD)** achieving 100% line coverage, ensuring robust functionality and reliability of services through rigorous component testing.
- Enabled seamless service-to-service integration via the **NAWS-MAWS** connection, optimizing inter-service communication and functionality.

### Software Development Engineer Intern

#### AppViewX

📅 Mar '21 – June '21 📍 Coimbatore, TN

- Developed **automation** workflows for certificates as a member of the **CERT+** team, streamlining the creation of approximately 50,000 certificates per month from various authorities including **Microsoft Enterprise**, **Entrust**, **DigiCert**, and **EJBCA**.
- Implemented streamlined workflows that successfully classified over 1,000,000 **SSL** certificates based on parameters like expiry date, **CA** status, and **hash** function.
- Orchestrated certificate deployment to diverse device vendors such as **F5**, **A10**, **IIS Server**, **Citrix**, **Apache Server**, and **Linux Server**. Additionally, authored **Python** scripts to collect and update server details in **MongoDB**, encompassing **CPU utilization**, **ports**, and **core count**.

## PROJECTS

### Selfie Extractor

#### Machine Learning

📅 Mar '20 – May '20 📍 Indore, MP

- Crafted a **Python** script to extract around 15,000 selfie images from a gallery.
- Engineered a 3-layered **Convolutional Neural Network (CNN)** using **Keras** for **image recognition** and text classification.
- Utilized Keras's **ImageDataGenerator** to **preprocess** and augment a dataset of 3000 images.
- Attained an outstanding **85% validation accuracy** for the model.
- Processed and organized over **15,000** selfie images into a separate folder, optimizing **image management** and **retrieval**.

### Google Meet Clone

#### Web Development

📅 Jul '23 – Sept '23 📍 Chandrapur, MH

- Transformed a webpage with **HTML** and **CSS**, crafting components and buttons for a dynamic user experience. Managed over 100 web elements in the design and implementation process.
- Engineered the **backend** architecture using **JavaScript** and implemented **socket.io**, enabling seamless connections for up to 500 simultaneous **client-server** interactions, enhancing system performance by 40
- Orchestrated real-time audio and video streaming for a user base of approximately 120 users, ensuring a flawless communication experience utilizing **WebRTC**.
- Utilized **Git** for version control and **GitHub** for collaborative development.

## SKILLS

Java Python C++ HTML CSS  
TypeScript

AWS Docker Kubernetes

Spring Boot Node.js Keras  
Tensorflow Flask Django

MongoDB PostgreSQL DynamoDB

ElasticSearch Logstash Kibana  
REST APIs IntelliJ Idea Visual Studio Code  
Git GitLab

## EDUCATION

### Bachelor of Engineering

#### Rajiv Gandhi Technical University

📅 Aug 2015 – June 2019

### Masters of Science

#### International Institute of Information Technology, (IIIT, Bangalore)

📅 Dec '23 – Ongoing