

# Adnan Momin

Senior Software Engineer with expertise in Python, AWS, Serverless architecture, System Design. Holds a Bachelor's degree in Computer Engineering, graduated in 2016.

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## OVERVIEW

Experienced Senior Software Engineer with a 7-year track record in developing efficient, scalable, and maintainable code solutions. Specializing in Android app development for 1 year and backend development and engineering for 6 years. A quick learner with a proficiency in Python, MongoDB, AWS Cloud, Serverless, RESTful APIs, Web-Scraping & Automation, Multiprocessing, Scalability, Load Balancing, Docker, HAProxy, Apache Web-Server, Bitbucket, and Jira. Eager to contribute to large-scale distributed systems with a passion for system design and solution architecture.

## EXPERIENCE

### Karza Technologies, Mumbai — Tech Lead Engineer

JULY 2017 - PRESENT

#### Overview:

I oversee various products including API-Gateway, APIs Encryption Framework, User Management & Access Management, Client-facing Dashboards/Sandboxes, and the Organization's website and CMS. Presently, my focus lies on designing, architecting, implementing, testing, and deploying an Asynchronous Framework for APIs, RBAC and BI Dashboards.

#### Responsibilities:

**Comprehensively** analyzing functional, non-functional, technical, non-technical, and business requirements within the project context.

**Formulating** the overall solution and approach for the project from inception to completion.

**Developing and Executing** strategies for architecture, design, development, testing, and deployment, including schedules for UAT and Production rollouts.

**Swiftly Addressing** client-reported issues, providing a detailed deployment timeline, and conducting Root Cause Analysis (RCA) for clients.

**Conducting** thorough code reviews, executing Proof of Concepts (POCs), and substantiating proposed solutions to meet project requirements.

**Assisting Team Members** in resolving intricate bugs and problems, offering guidance on problem-solving approaches, providing constructive feedback, and establishing clear expectations.

## SKILLS

Python, Flask, Django, Java, Android Development.

MongoDb, MySQL.

Linux(Ubuntu).

Bitbucket, Git, JIRA.

Web-Scraping, Selenium, Automation

AWS, Redis, Docker, CI/CD.

Design Patterns, Algorithms, Data Structures, System Design, Solution Architect.

## ONLINE PROFILE

<https://stackoverflow.com/users/6587774/adnan-momin>

<https://github.com/adnanmomin>

<https://www.linkedin.com/in/adnan-momin-24454095/>

## LANGUAGES

English, Urdu

## Projects:

- (Year 7) Collaborating with a team member to build a SelfServe Portal for a B2C product. Responsible for designing APIs, database schema, development, testing, code reviews and deployment of the portal.
- (Year 7) Parallely working on Security enhancement activity to privatize all the resources and installation of monitoring and firewall systems.
- (Year 6) Independently overseeing the architecture, design, implementation, testing, and deployment of the Asynchronous Framework for APIs. Collaborated with a team member to design, implement, and review CI/CD (Continuous Integration/Continuous Deployment) setups for multiple projects.
- (Year 6) Collaborating with team members to enhance the password management system and introduce new features to the organization's Sandbox. Automating operational tasks to streamline processes and save manual efforts and time for other teams. Leading the team in successfully completing the code migration to Python 3.11.
- (Year 5) Collaborated with a team member and recently spearheaded a **re-architecting project for the Alternate-Gateway, Download services, and UrlShortener Service** within the organization. The initiative resulted in a substantial enhancement of scalability, availability, and cost savings exceeding 45%.
- (Year 5) Collaborated with a team member to create an **Encryption Framework for APIs**, incorporating AES, PGP, and Hybrid (RSA+AES) encryption features. Conducted code reviews and managed the deployment process.
- (Year 4) Deployed **core services of the organizations**. Currently owning and managing them.
- (Year 4) Teamed up with a colleague to execute a significant version upgrade on MongoDB. Developed a comprehensive process and steps for upgrading the database server, conducting various tests and proofs of concept (POCs) with the team before the actual production upgrade. Acquired valuable experience in **database administration** through this initiative.
- (Year 4) Teamed up with a junior developer to create the MongoDB Archiving project. Designed APIs and process flows for generating an archive of the MongoDB database and retrieving archives upon user requests through APIs. Conducted code reviews and managed the deployment of the system. Acquired valuable experience in **database management** throughout the project.
- (Year 3) Engineered APIs, process flows, and deployment strategies for the Billing and Invoicing System. Conducted comprehensive code reviews and managed the deployment process.
- (Year 3) Successfully deployed an Alternate-Gateway utilizing Python, Flask, Apache Web-Server, and WSGI. Devised a highly scalable and available architecture to accommodate traffic and ensure 100% uptime. Verified the system implemented by a team member aligning

with the design. Implemented custom scripts for scale-in/scale-out operations.

- (Year 2) Implemented the deployment of Decaptcha APIs using Python, Flask, Apache Web-Server, and WSGI.
- (Year 2) Developed Dashboard and User management APIs for the organization's Sandbox. Presently concentrating on implementing RBAC (Role-Based Access Control) to enhance control over access management features within the organization.
- (Year 1) Accumulated significant expertise in web scraping, overseeing the development and management of 70+ microservices centered around real-time web scraping. Implemented web scrapers to handle payments, transactions, and login sessions.

### **TechStack:**

I possess technical expertise in a wide range of AWS services, including Lambda, API Gateway, Elastic Beanstalk, ELB, EC2, ECS, S3, Glacier, VPC, SNS, SQS, IAM, ASG, Lightsail, Amplify, ElasticCache, Secrets Manager, CloudWatch, KMS. My skills also extend to Multiprocessing, Scalability, Availability, and proficiency in Serverless Framework. Additionally, I am experienced in working with Apache Web-Server, HAProxy, Docker, Redis, and proficient in programming languages such as Python and Flask. I am well-versed in version control with Bitbucket and project management using JIRA.

### **Freelancer, Online — Software Developer**

MAY 2017 - JULY 2017

Gained expertise in web scraping through this experience and completed over 20 mini projects across various freelance platforms.

Freelancer: <https://www.freelancer.in/u/adnanmomin9448.html>

PeoplePerHour: <https://www.peopleperhour.com/freelancer/development-it/adnan-software-developer-programmer-yvjqnmj>

Fiverr: <https://www.fiverr.com/adnanknown>.

### **Taibah Infotech Pvt. Ltd, Mumbai — Mobile App Developer**

JULY 2016 - MAY 2017

Created 2-3 applications for both Android and iPhone platforms, incorporating features such as push notifications, Google Analytics integration, YouTube video streaming, CRUD operations, file downloads, audio streaming, and QR code reading.

### **EDUCATION**

**Anjuman-I-Islam's Kalsekar Technical Campus,  
Navi Mumbai, Maharashtra — B.E. Computer Engineering**

MAY 2012 - JUNE 2016

Aggregate CGPA is 7.07.

Paper published in February 2016 for B.E. final year project on Intelligent Hiring with Resume Parser and Ranking using Natural Language Processing and Machine

Learning([http://www.ijircce.com/upload/2016/april/218\\_Intelligent.pdf](http://www.ijircce.com/upload/2016/april/218_Intelligent.pdf)).

Developed an ECommerce Website with Basic features and some mini projects as a part of academics..

**Royal Junior College, Mumabai — H.S.C**

MAY 2010 - APRIL 2012

Annual marks 56.83%.

**Queen Mary's High School, Mumabai — S.S.C**

MAY 2010 - APRIL 2012

Annual marks 80.73%.