Affan Arif Khamse

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Education

Master of Science in Computer Science (GPA: 3.78/4)

New York, NY, USA

New York University

Expected May 2025

Courses: Software Engineering, Data Structures & Algorithms, Machine Learning, Databases

Bachelor of Engineering in Computer Engineering (GPA: 9.00/10)

Mumbai. India

University of Mumbai

June 2023

Technical Skills

Programming Languages: C++, Java, Python, C#, HTML, CSS, JavaScript, SQL Frameworks and Libraries: Flask, Spring Boot, Django, ReactJS, REST API

Cloud and DevOps: Amazon Web Services / AWS, Microsoft Azure, Docker, Kubernetes, CI/CD Pipelines

Databases: MvSQL, PostgreSQL, MongoDB, Firebase, NoSQL, Hibernate ORM

Testing & QA: JUnit, PyTest, Django Test, Chrome DevTools

Tools and Methodologies: Git, GitHub, Travis CI, Figma, Agile (Scrum), UML, Object-Oriented Design

Specialized Expertise: Microservices, Scalable Back-End Development, API Integration, Real-Time Systems Design

Work Experience

Software Teaching Assistant – Object-Oriented Programming

New York, NY, USA

Courant Institute of Mathematical Sciences @ New York University

January 2024 – Present

- Mentored 50+ students in Object-Oriented Programming (C++ and Java), applying software engineering principles to real-world scenarios and debugging complex issues
- Conducted code reviews and provided constructive feedback on programming assignments, enhancing code quality, maintainability, and adherence to best practices

Projects

Inquis AI - Software Engineer

June 2024 - February 2025

GitHub upon request

Flask, Python, Bootstrap, AWS, Firebase, Azure DevOps, RESTful APIs

- Spearheaded the development of an AI platform enabling non-technical users to create tailored virtual assistants by uploading data, powered by large language models for domain-specific interactions
- Designed and implemented a robust front-end using HTML, CSS, and JavaScript, supported by Flask for server-side logic and Firebase for real-time data, with error-handling mechanisms that enhanced system reliability by 30%
- Architected and deployed high-performance, scalable RESTful APIs, optimizing data operations (retrieval, insertion, deletion) to enhance efficiency and scalability, supporting 1,000+ concurrent users
- Led a 3-person tech team using Agile (Azure DevOps), driving architecture decisions and infrastructure scaling to reduce delivery timelines by 25%

Live Flash Auctioning System - Full Stack Developer

September 2024 - December 2024

AWS EC2, DynamoDB, S3, Redis, WebSockets, CloudWatch, Flask, Python, REST APIs, DevOps

Demo GitHub

- Architected and developed the platform as a Full Stack Engineer, integrating AWS EC2 with Auto Scaling, DynamoDB, and S3 to ensure low-latency bidding and scalable performance, handling peak user loads of 10,000+ sessions
- Executed the design and deployment of REST APIs, optimizing operations like auction creation and bidding for a 30% reduction in response time
- Collaborated with front-end and back-end teams to integrate WebSocket-based real-time communication, reducing latency by 40% and improving system reliability
- Orchestrated a bidding pipeline using Amazon SQS/SES, processing 1,000+ bids/min with 99% accuracy, and streamlined deployment via DevOps practices, cutting deployment time by 25%.

VibeCheck (Full-Stack Project)

September 2023 - December 2023

Django, Python, Bootstrap, AWS Elastic Beanstalk, PostgreSQL, Redis, TravisCI

Demo GitHub

- Managed the development of a music-based social networking app, ensuring scalable real-time interactions and reduced latency by 30-40% through **Redis** Channels
- Implemented a robust CI/CD pipeline and launched the app on AWS, leveraging Travis CI for automated testing and seamless integration workflows
- Ensured reliability through comprehensive unit testing with Django.test, achieving more than 87% coverage, improving application quality and maintainability

Clubs & Extracurricular Activities

Web Developer

Navi Mumbai, India

Google Developer Student Club BVCOE

- Developed a React is-based club website with a 5-member team, optimizing UI/UX to drive 30% increase in member **engagement** and visibility
- Orchestrated cloud computing and web development workshops for 300+ attendees, coordinating cross-functional teams to deliver hands-on technical sessions (AWS, Android SDK)