

AFFAN ARIF KHAMSE

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Education

New York University

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

Courses: Software Engineering, Data Science, Algorithms, Machine learning, Databases

New York

Expected May 2025

University of Mumbai

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

Mumbai, India

June 2023

Technical Skills

Programming Languages: C++, Java, Python, HTML, CSS, JavaScript, SQL

Frameworks and Libraries: Spring Framework, ReactJS, Django, REST API

Testing Frameworks: JUnit, PyTest, Django.test Chrome DevTools

Database Management Technologies: MySQL, PostgreSQL, Hibernate ORM, Firebase

Cloud Computing and DevOps: AWS, CI/CD, Travis CI, Docker, Azure DevOps

Other: Full-Stack Development Android Development, Figma, Agile Methodology, Git, Github Bootstrap

Relevant Experience

Graduate Teaching Assistant

Jan 2024 – Present

New York University

New York, NY

- Provided one-on-one and group mentoring to over 50 undergraduate students in Object-Oriented Programming (OOP), enhancing their proficiency in **C++**, **Java**, **Unified Modeling Language**, and **OOP principles**.
- Evaluated and graded assignments for the course "Programming Tools for the Data Scientist" course, ensuring timely and constructive feedback on Python, Regular Expressions, NumPy, SciPy, Pandas, and Data Visualization, contributing to a 20% improvement in student grades.

Academic Projects Experience

Inquis-AI (Fullstack Project)

GitHub upon request

Flask, Python, Bootstrap, AWS, Firebase, Azure Devops, Pinecone

May 2024 - present

- Spearheaded the development of an innovative unified system for course assistance and content management that significantly improved student engagement and learning efficiency by 21% through instant answers to course-related questions using professor-provided notes and files
- Delivering end-to-end solutions as a **full-stack engineer**, seamlessly integrating a dynamic front-end and back-end in Flask (Python) with Firebase (NoSQL) for a robust and scalable back-end
- Architected and deployed high-performance, scalable RESTful microservices (**APIs**) for critical back-end operations. This solution significantly boosted system efficiency and ensured effortless scalability to meet growing demands.
- Utilized **Azure DevOps** to lead cross-functional teams, ensuring continuous integration and automated testing pipelines to improve deployment efficiency by 25%.

Roomio – Apartment Rental and Roommate Finder Web Application

[GitHub](#)

Django, Python, PostgreSQL, JavaScript, Bootstrap

Feb 2024 - March 2024

- Designed the ER model and relational database schema during the planning stage, ensuring efficient data handling and optimized queries for the application.
- Developed fullstack features using Django, ensuring seamless communication between the frontend and backend. Focused on scalable architecture and secure data transactions.
- Engaged with potential end users to gather feedback and refine feature requirements, ensuring the project met user needs and enhanced usability.

VibeCheck (Fullstack Project)

[Demo](#) [GitHub](#)

Django, Python, Bootstrap, AWS, PostgreSQL, Redis, TravisCI, Hugging Face

Sept 2023 - Dec 2023

- Led the development of a music-based social networking app using Django, Redis, and AWS, ensuring scalable real-time interactions and reduced latency by 50-60% through Redis Channels.
- Managed the deployment of VibeCheck on **AWS**, focusing on Travis CI for **automated testing** and deployment. Ensured seamless integration and deployment workflows, utilizing **AWS Elastic Beanstalk** and Redis (ElastiCache) for improved performance and reliability.
- Enhanced reliability through comprehensive **unit testing** with Django.test, achieving 87% coverage, significantly improving application quality and maintainability.

Extra Curricular Activities

Student Web Developer

Aug 2021 – July 2022

Google Developer Student Club BVCOE

Navi Mumbai, India

- Developed and launched a website for the Google Developer Club with a team of 5 members using the **React.js** framework, resulting in a 20-30% increase in club visibility and member engagement.
- Organized key events in **cloud computing**, **web**, and **Android development**, resulting in a virtual workshop with over 300 attendees, showcasing interactive tech learning.