

AFFAN ARIF KHAMSE

Brooklyn, NY · 516-853-4972 · khamseaffan@nyu.edu · github.com/khamseaffan · linkedin.com/in/affan-khamse-khamseaffan.com

EDUCATION

New York University

Master of Science in Computer Science (GPA: 3.778/4)

Courses: Operating Systems, Software Engineering, Data Science, 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
Database Management Technologies:	MySQL, PostgreSQL, Hibernate ORM, Firebase
Cloud Computing and DevOps:	AWS, CI/CD, Travis CI, Docker, Azure DevOps
Other Technologies:	Android Development, Figma, Agile Development, Git, Bootstrap

RELEVANT EXPERIENCE

New York University

Full-Stack Software Developer

New York, NY

May 2024 – Present

- Spearheaded the development of an innovative course assistant and content management system that significantly improved student engagement and learning efficiency by 20% through instant answers to course-related questions using professor-provided notes and files
- Delivered 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 for critical back-end operations, optimizing data retrieval, insertion, and deletion processes. This solution significantly boosted system efficiency and ensured effortless scalability to meet growing demands.
- Enhanced project delivery timelines by 25% through **Agile** methodology, leading daily sprints and coordinating efforts with cross-functional teams via **Azure DevOps**

New York University

Graduate Teaching Assistant

New York, NY

Jan 2024 – May 2024

- Provided one-on-one and group mentoring to over 50+ undergraduate students in **Object-Oriented Programming**, enhancing their proficiency in **C++**, **Java**, **UML diagrams**, and **OOP principles**
- Evaluated and graded assignments for the "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

VibeCheck

Django, Python, Bootstrap, AWS, Supabase PostgreSQL, Redis Channels, TravisCI/CD, Hugging Face

GitHub

- Led the development of "VibeCheck," an innovative music-based social networking **web-application**, utilizing the Spotify API to reflect user listening habits and overall musical vibe across 15 different emotional expressions
- Improved user interaction by integrating **Redis Channels** for a chatroom feature. Achieved a 50% increase in speed over traditional HTTP, enabling real-time communication among users
- 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

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

CodePath

Technical Interview Prep

Certificate

June 2024 – Aug 2024

- Completed a series of coding challenges focused on data structures and algorithms, simulating real-world technical interview scenarios

CLUB AND ACTIVITIES

Google Developer Student Club BVCOE

Student Web Developer

Navi Mumbai, India

Aug 2021 – July 2022

- Developed and launched a website for the Google Developer Club with a team of 5 members using the **React.js** framework, resulting in a 50% 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