

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) <i>Courses: Operating Systems, Software Engineering, Data Science, Databases</i>	New York <i>Expected May 2025</i>
University of Mumbai Bachelor of Engineering in Computer Engineering (GPA: 9.00/10)	Mumbai, India <i>June 2023</i>

Technical Skills

Programming Languages:	C++, 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

Full-Stack Software Developer <i>New York University</i>	May 2024 – Present New York, NY
<ul style="list-style-type: none">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 filesDelivered 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-endArchitected 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	
Graduate Teaching Assistant <i>New York University</i>	Jan 2024 – May 2024 New York, NY
<ul style="list-style-type: none">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 <i>Django, Python, Bootstrap, AWS, PostgreSQL, Redis, TravisCI, Hugging Face</i>	GitHub Sept 2023 - Dec 2023
<ul style="list-style-type: none">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.	
Store Inventory Management System <i>Spring MVC, Java, MySQL</i>	
<ul style="list-style-type: none">Developed a Java Spring Web Application for store inventory management, integrating a MySQL database for robust data handling. Improved operational efficiency and inventory tracking, ensuring scalability.Conducted CRUD operations on store inventory through software implementation.Integrated Itext Maven Library to generate customized PDF invoices, streamlining the billing process.	

Extra Curricular Activities

Student Web Developer <i>Google Developer Student Club BVCOE</i>	Aug 2021 – July 2022 Navi Mumbai, India
<ul style="list-style-type: none">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.	