

Affan Arif Khamse

New York City · 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: 3.78/4) <i>Courses: Software Engineering, Data Science, Algorithms, Machine Learning, 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++, Java, Python, HTML, CSS, JavaScript, SQL
Frameworks and Libraries: Spring Framework, ReactJS, Django, REST API
Cloud and DevOps: Amazon Web Services (AWS), Microsoft Azure, Docker, Kubernetes, Kafka, Travis CI
Database Management Technologies: MySQL, PostgreSQL, Hibernate ORM, Firebase
Testing Frameworks: JUnit, PyTest, Django.test Chrome DevTools
Development Tools and Methodologies: Figma, Git, GitHub, Bootstrap, Agile Methodology, Scrum

RELEVANT EXPERIENCE

Teaching Assistant <i>New York University</i>	Jan 2024 – Present New York, NY
<ul style="list-style-type: none">Coach over 50 undergraduate students in Object-Oriented Programming (OOP), enhancing their proficiency in C++, Java, and Unified Modeling Language (UML)Facilitate sessions focused on OOP principles, improving students' understanding and application of programming conceptsEvaluate and grade assignments for the course "Programming Tools for Data Scientist" course, ensuring timely and constructive feedback on Python, Regular Expressions, NumPy, SciPy, Pandas, and Data Visualization, Led to a 20-30% improvement in students' grades	

ACADEMIC PROJECTS EXPERIENCE

Inquis-AI (Full-stack Project) <i>Flask, Python, Bootstrap, AWS, Firebase, Azure DevOps, Pinecone</i>	Repository available upon request May 2024 - present
<ul style="list-style-type: none">Spearheaded the development of an innovative unified system for course assistance and content management that improved student engagement and learning efficiency by 21% through instant answers to course-related questions using professor-provided notes and filesDelivering end-to-end solutions as a full-stack engineer, seamlessly Integrated an interactive front-end with Flask (Python) and Firebase (NoSQL) for real-time user updatesArchitected and deployed high-performance, scalable RESTful microservices (APIs) for critical back-end operations. This solution boosted system efficiency and facilitated effortless scalability to meet growing demandsUtilized Azure DevOps to lead cross-functional teams, Led continuous integration and automated testing pipelines to improve deployment efficiency by 25%	
Roomio – Apartment Rental and Roommate Finder Web Application <i>Django, Python, PostgreSQL, JavaScript, Bootstrap</i>	GitHub Feb 2024 - March 2024
<ul style="list-style-type: none">Designed the ER model and relational database schema during the planning stage, ensuring efficient data handling and optimized queries for the applicationDeveloped full-stack features using Django, enabled efficient communication between front-end and back-end, focusing on scalable architecture and secure data transactionsEngaged with potential end users to gather feedback and refine feature requirements, ensuring the project met user needs and enhanced usability	
VibeCheck (Fullstack Project) <i>Django, Python, Bootstrap, AWS, PostgreSQL, Redis, TravisCI, Hugging Face</i>	Demo GitHub Sept 2023 - Dec 2023
<ul style="list-style-type: none">Managed 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 ChannelsDirected the deployment on AWS, leveraging Travis CI for automated testing and deployment, ensured seamless integration and deployment workflows, utilizing AWS Elastic Beanstalk and Redis (ElastiCache) for improved performance and reliabilityEnhanced reliability through comprehensive unit testing with Django.test, achieving 87% coverage, improving application quality and maintainability	

CLUBS & EXTRACURRICULAR 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 20-30% increase in club visibility and member engagementOrganized key events in cloud computing, web, and Android development, resulting in a virtual workshop with over 300 attendees, showcasing interactive tech learning	