

# Vedant Rakesh Abrol

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## Profile Summary

A motivated **Software Engineer** with 2+ years of experience in **backend development**, focusing on building **scalable microservices** and **RESTful APIs**. Proficient in **Python**, **C#**, and **.NET framework**, with hands-on experience in **AWS services**. Skilled in **GPU-intensive applications**, **microservices architecture**, and **relational/non-relational databases** like **MongoDB** and **DynamoDB**. Strong problem-solving abilities, eager to contribute to **system scalability** and collaborate with cross-functional teams.

## Professional Experience

USA (Remote)	<b>FREELANCE CODER</b> <b>OUTLIER AI</b> <ul style="list-style-type: none"><li>Evaluated <b>AI-generated code</b> and solving coding problems across projects. Developed and managed the <b>SQL pipeline</b> for <b>Flamingo Coding's MultiTurn Deviations</b>. Additionally, assessed <b>large language models (LLM'S)</b> by rating and justifying code responses based on tool dimensions and effectiveness. Worked on data sets. Conducted <b>data analysis</b> on large datasets, identifying patterns and insights to improve AI model performance.</li></ul>
2022/08 – 2023/07 New York (Remote)	<b>SOFTWARE ENGINEER INTERN</b> <b>SCIENAPTIC AI</b> <ul style="list-style-type: none"><li>Scienaptic AI revolutionizes <b>credit underwriting</b> with <b>advanced AI tools</b>, helping financial institutions identify qualified prospects and <b>mitigate risks</b> efficiently.</li><li>Developed, tested, and deployed full-stack solutions for the <b>"Iris" project</b> using <b>Scala, Java, Play Framework, and TypeScript</b>.</li><li>Enhanced backend functionality, including <b>XML to JSON</b> conversion, and integrated changes with the <b>CI/CD pipeline for seamless deployments</b>.</li><li>Resolved <b>complex technical issues</b>, improved code readability, and managed <b>databases</b> using <b>SQL, Gremlin, and JanusGraph</b>.</li></ul>
2022/06 – 2022/07 New York	<b>SUMMER RESEARCH INTERN</b> <b>NEW YORK UNIVERSITY (NYU)</b> <ul style="list-style-type: none"><li>Project Title: Additive Manufacturing <b>Cybersecurity</b>.</li><li>Topic : Direct Digital Manufacturing with 3D Printing: <b>Designing for Security</b> under Prof. Nikhil Gupta (NYU Tandon School of Engineering).</li><li><b>Secured/Encrypted CAD files</b> and addressed vulnerabilities in additive manufacturing to prevent cyber attacks.</li></ul>

## Skills

HTML,CSS,JavaScript	● ● ● ● ●	Java	● ● ● ● ●
Scala	● ● ● ● ●	ReactJS/NodeJS	● ● ● ● ●
C/C++	● ● ● ● ●	Python	● ● ● ● ●
Software Development Life Cycle	● ● ● ● ●	Cassandra	● ● ● ● ●

## Projects

### Personalized Event Recommendation Engine

Developed a **full-stack event recommendation application** using the **TicketMaster API** to suggest events based on user geolocation and preferences. Implemented **secure user authentication**, designed an algorithm for personalized recommendations, and integrated geo-location features. Managed **data** with **MySQL** and **MongoDB**, and created **RESTful APIs**. Built a responsive UI and deployed the backend with **Java** on **Apache Tomcat**.

## Organizations

### New Jersey Institute of Technology (NJIT) ENGAGEMENT CENTER AMBASSADOR

The Engagement Center, part of Development and Alumni Relations, raises support from NJIT alumni, family, and friends. Responsibilities include using communication skills to secure contributions for NJIT's Annual Fund.

Teaching Assistant/Tutor for Educational Opportunity Program (EOP) at NJIT

## Education

2023/09 – (Graduating in May 2025) Newark, United States	<b>M.S. Computer Science</b> <b>New Jersey Institute of Technology</b>
2019/05 – 2023/05 Goa, India	<b>B.E Electronics and Instrumentation</b> <b>BITS PILANI</b> CS Elective Courses done: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Introduction to C programming