

# Aman Agrawal

<https://www.linkedin.com/in/aman0408/>

Email : [amagrawal@cs.stonybrook.edu](mailto:amagrawal@cs.stonybrook.edu)

Mobile : +1-934-451-9586

## SUMMARY

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Passionate about creating user-centric solutions that make a real difference. With a strong foundation in software development, I excel at developing solutions that drive positive outcomes. Seeking a role where I can leverage my skills to make a direct impact on user satisfaction and contribute to the success of innovative projects.

## EDUCATION

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- **State University of New York** Stony Brook, NY  
*Master of Science in Computer Science; GPA: 3.89* Aug. 2023 – May 2025
- **University of Mumbai** Mumbai, India  
*Bachelor of Engineering in Computer; GPA: 3.60 (8.93/10.0)* Aug. 2017 – June. 2021

## PROGRAMMING SKILLS

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- **Languages:** Java, Python, Javascript, C++, SQL, Java, HTML, CSS, Shell Scripting, .NET
- **Frameworks:** AWS, Microsoft Azure, Docker, REST, Android, Flutter, Django, React, Node, Kafka, Kubernetes, Prometheus, MongoDB, MySQL, PostgreSQL, Elasticsearch, Spark, SpringBoot, Redis, Cassandra

## EXPERIENCE

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- **WorkIndia** Bengaluru, India  
*Software Engineer* Jul 2020 - Jul 2023
  - **User Segmentation:** Developed an internal segment service using Cassandra and SparkSQL to segment users based on activity and lifecycle to efficiently perform A/B testing for new features and marketing campaigns.
  - **User Experience:** Designed and added product flows and UI elements for a better user experience and retention by simplifying communication. This reduced customer acquisition cost and increased revenue
  - **Workflows:** Implemented document collection and identity verification workflows using REST APIs, Elasticsearch, Django, Postgres, ReactJS and OCR to reduce account activation time from 5 hours to 3 hours.
  - **Prod Environment:** Reduced deployment time of microservices on Kubernetes by setting up Jenkins CI/CD pipelines from 30 to 2 minutes.
  - **Monitoring and Availability:** Configured Prometheus and Grafana based monitoring; accomplished 2000+ hours on-call shift in a year bringing availability up from 86% to 98.6%.
- **VPS Techub** Mumbai, India  
*Mobile Application Development Intern* Dec 2019 - Dec 2020
  - **Application Development:** Spearheaded mobile application development for 4 projects using Android, Flutter, Django, Flask, NodeJS, and Postgres with 5k+ downloads on Google Play Store. Used MVVM architecture and dependency injection.
  - **Project Management:** Led a team of 4 using agile from ideation to delivery while coordinating with the client.

## PROJECTS

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- **ReDOS:** Worked under Prof. Dongyoon Lee to design tools to detect super-linear regex expressions which might cause DOS attacks on servers thereby crashing it. The project is aimed at identifying and preventing the use of such patterns in programming languages and open-source packages.
- **Prometheus Backport:** Made recent versions of django-prometheus package compatible with older version of Django for improved and accurate metrics of legacy systems.

## AWARDS AND ACHIEVEMENTS

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- Secured 2nd Runner-Up among 100+ teams at Amazon Hofstra University Capture the Flag.
- Published research on developing an interactive chatbot for stress relief using Deep Learning and Natural Language Processing ([link](#))
- Secured 2nd Runner Up among 500+ teams in national level hackathon held at NIT Surat.
- Advanced to the semi-finals in the Texas Instruments Design Challenge by presenting a novel three-layered neural network for detecting drunk driving.