Vaibhav Agrawal

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Education

New York University *Sep 2019 – Dec 2020*
MS in Computer Science (GPA 3.85/4.0)

- **Coursework:** Database Systems, Cloud Computing, Application Security, Deep Learning, OS

Indian Institute of Technology Kharagpur *Jul 2015 – Apr 2019*
Bachelor of Technology (GPA 9.03/10.0)

- Holder of 2019 Anukul Chandra Sarkar Memorial Gold Medal
- **Coursework:** Algorithms & DS, Computer Architecture, Machine Learning, NLP & AI

Experience

Software Engineer *Bellevue, WA*
Meta *Feb 2025 – Present*

- Developing scalable signal processing systems for Facebook's monetization signal growth platform

Software Engineer II *Seattle, WA*
Twitch (Amazon) *Mar 2021 – Feb 2025*

- Led cross-team effort to launch seller of record in EU driving $10M annual savings through strategic fee reduction
- Architected in-house recurring billing engine, reducing subscription management fees by up to 10%
- Promoted to SWE II in 1y by leading async job migration, demonstrating advanced technical architecture skills
- Implemented regression and component testing for critical payment paths, reducing toil and enhancing reliability

Associate Product Manager Intern *San Francisco, CA*
Salesforce *Jun 2020 – Aug 2020*

- Developed a centralized calendar tool on GUS to streamline release schedule tracking across Salesforce teams
- Eliminated fragmented tracking methods by creating a unified platform for release management
- Collaborated with various stakeholders to design an intuitive solution that improved cross-team coordination

Technologies

Languages: C++, Python, Golang, TypeScript, Java, C

Technologies: AWS, Postgres, React, GraphQL, Android

Publications

- **Vaibhav Agrawal** et al. Crash severity analysis through nonparametric machine learning methods Journal of East Asia Society of Transportation Studies 2019 Volume 13 Pages 2614–2629. Cited By 9
- D Adiga, R Saluja, **Vaibhav Agrawal** et al. Improving the learnability of classifiers for sanskrit ocr corrections Computational Sanskrit & Digital Humanities 2018 Pages 143-161. Cited By 7

Projects

Tutor Matching Platform *2020*

- Developed a RESTful tutoring management web app with intelligent student-tutor matching algorithm
- Tools Used: React, Django, Postgres

Twitter Bot Detection *github.com/avaibh/birdbot*

- Developed a big data machine learning model with 91% accuracy for detecting political propaganda bots on Twitter
- Tools Used: Spark ML, Kafka, MongoDB

Sanskrit Language Learning Android App *github.com/avaibh/SansTranslate*

- Created an interactive Sanskrit learning app featuring vocabulary lists, pronunciation guides, quizzes, and viz aids
- Tools Used: Java, XML, Android