

# KUNIKA MITTAL

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## EDUCATION

- **Masters of Science in Software Engineering** Aug 2019 - Dec 2021  
San Jose State University San Jose, CA  
Coursework: Large Scale Analytics, Enterprise App Development, Software Design, Machine Learning
- **Bachelor of Engineering in Electronics and Electrical** May 2012 - May 2016  
Guru Gobind Singh Indraprastha University Delhi, IN  
Coursework: Database System, Algorithms and Data Structure, Operating Systems

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++
- **Web Technologies:** HTML5, CSS3, JavaScript, Express.js, Spring Boot, Node.js, REST
- **Data Science:** NumPy, Pandas, Scikit-learn, Natural Language Processing, TensorFlow
- **Cloud Technologies and Databases:** AWS Cloud, Heroku, Postgres, MySQL, S3, SQL Server, MongoDB
- **Tools:** Docker, Git, JMeter, Postman, BloomRPC, DBeaver, AppDynamics, Kubernetes

## PROFESSIONAL EXPERIENCE

- **Software Engineering Intern, Blackhawk Network**, Pleasanton, CA Sept 2021 - Dec 2021
  - Responsible for building libraries for different payment methods using Express.js
  - Participate in the code release activity and continuous integration of the code

- **Software Engineering Intern, Equinix**, San Jose, CA June 2021 - Aug 2021
  - Developed REST endpoint for CRUD operations on IAM Roles internally connected to gRPC generated stubs to make the API highly efficient. REST API is capable of handling 105 request per minute
  - Transaction from gRPC proxy to REST API streamlined procedure calls to REST standards maintaining gRPC efficiency
  - Built Synthetic Monitoring scripts and deployed them on AppDynamics to monitor the liveliness of the application
  - Performed Real User Monitoring on UI; 8% hike in user onboarding post application of RUM feedback

- **Graduate Teaching Assistant, San Jose State University**, San Jose, CA Feb 2021 - April 2021
  - Instructed 90+ students in Python programming & assisted in lab assignments for CS22A: Python Programming
  - Prepared and presented demonstrations of Python GUI implementation to help students with their projects

- **Software Developer, CheckMyGaadi**, Delhi, India May 2018 - July 2019
  - Modified the data access layer during data migration from MySQL to PostgreSQL
  - Designed, developed & deployed public & internal REST APIs with a throughput of 2500 queries/sec using Spring Boot
  - Monitored the performance & usage of API using Grafana, created rules for alerts to proactively alert about the issues
  - Implemented "Decentralized Car Washing" (mediation algo) resulting in 100k new users onboarding within 1 month

- **Product Business Analyst, StartupByte**, Hyderabad, India May 2017 - April 2018
  - Worked on SDLC from requirements, design to testing and automation, ensuring a high degree of quality
  - Built Python scripts for scraping data from job sites and developed a database of 100k entries
  - Initiated and led the efforts for the "StartupByte Jobs" vertical working closely with the founder
  - Developed an E2E scalable process for onboarding employees workflow saving the client's time by 40%

## PROJECTS

- **Udagram (NodeJS, AWS, REST, Docker)** Aug 2020 - Dec 2020
  - Developed and deployed a high-availability web app allowing users to register and log into a web client, post images to the feed, and process images using an image filtering microservice
  - Stored data in Amazon Web Services Relational Data Service and S3

- **News Article Auto Tagger (Python, NumPy, NLP, Pandas)** Jan 2020 - May 2020
  - Developed an application for generating tags out of news articles and grouping together using NLP and topic modeling
  - Articles were grouped into similar topics based on the context using LDA (Latent Dirichlet Allocation)

- **Slide Tile Puzzle Solver (Java, Spring Boot, Heroku)** Aug 2019 - Dec 2019
  - Designed and developed a web app for solving the sliding tile puzzle using A\* algorithm
  - Implemented the following features: User can sign up and keep track of their progress, invite friends