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EXPERIENCE

Software Engineer Tremor Video DSP, New York Oct'16 - Present

- Working in Real-time Bidding(RTB) and ad-serving team for the demand side platform to facilitate in programmatic video advertising
- Designed and developed modern ad-server using Scala and Redis, capable of delivering 100k+ ads per second in real-time
- Developed a multi-threaded non-blocking resource loader application which acted as the backbone to other micro-services
- Part of team responsible for complete re-architecture of legacy Real-time Bidding system to scalable micro-service based design capable of performing end-to-end request handling under 50 milliseconds to integrate with Google Ad Exchange(AdX)
- Developed real-time scalable APIs that helps in demographic-based ad targeting
- Containerized several application using Docker for continuous deployment, better infrastructure utilization and efficiency.
- Involved in maintenance, integrations and feature additions for legacy platforms in Java
- *Technologies Used:* Scala, Java, Redis, Akka, MongoDB, Kafka, ElasticSearch, Cassandra, Ansible, Docker, Jenkins, Datadog

Teaching Assistant New York University, New York Sep'15 - May'16

- Teaching Assistant for Object Oriented Programming course using C++ under Prof. John Sterling.
- Responsible for conducting lab sessions, recitations, grading homework and examination.
- Managed 10 graduate assistants and 200+ students.

Software Engineer Intern Time Inc., New York Jun'15 - Aug'15

- Responsible for design and development of a Digital Asset Management component and brand catalogs to serve metadata for an e-commerce & subscription application for popular magazine brands such as Time, People, Sports Illustrated and Golf.
- Developed an editorial application and restful-APIs for efficient metadata management which helped in complete automation of delivering products and offers based on user interests and subscriptions.
- *Technologies used:* HTML/CSS, JavaScript, Bootstrap, Python Flask, AWS

Software Engineer Intern CaseRails, New York Sep'14 - May'15

- Worked on product enhancement to automate dynamic form building with JSON schemas and Angular Schema Form Builder for CaseRails legal content management system.
- Designed and architected core product service APIs and integration with third party services using Python Django framework.
- Developed end-to-end tests using Protractor, Jasmine and Web-driver Selenium.
- Technologies used: Python, JavaScript, Git, Emacs, Pivotal Tracker, LATEX, AWS.

TECHNICAL SKILLS

- **Languages:** Java, Scala, Python, C, C++, JavaScript
- **Frameworks:** Spring, Play, Colossus, Django, Flask, Spring, Hibernate, Hadoop, AngularJS
- **Databases:** MongoDB, Redis, MySQL, PostgreSQL, Cassandra
- **Tools:** Kafka, Datadog, Hive, Jenkins, Ansible, AWS, Git, Tableau

EDUCATION

New York University, Tandon School of Engineering, New York, NY. May'16

Master of Science, Computer Science (3.4)

Coursework: Algorithms, Data Structures, Cloud Computing, Big Data Analytics

Anna University, Chennai, India. Apr'13

Bachelor of Engineering, Computer Science (3.7)

ACADEMIC PROJECT

Customer Segmentation and Bike Rebalancing for Citi-Bike in NYC Nov'15

- Developed an analytics application to categorize and segment customers to facilitate targeted advertising to facilitate in market strategy redesign and driving revenue.
- The application identifies hot-spot locations generating highest revenue and usage trends which will be helpful in redesigning the marketing strategies to improve the customer base advertising.
- Tools and Technologies: Java, Hadoop, Hive, Tableau, AWS

Twitter-Sentiment Map Sep'14

- Record a stream of tweets from the Twitter Live API and Amazon SQS service is used to create a processing queue for the Tweets.
- Worker threads perform sentiment analysis using Alchemy API and Amazon SNS service updates the status processing on each tweet.
- Developed web application which displays a heat map with different gradient for positive & negative sentiments.