Narayan Acharya

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EDUCATION

- **Stony Brook University** — Stony Brook, NY
  Master of Science in Computer Science, Graduating Jan 2021 — *Aug 2019 – **Present***

  ○ Fall '19 Courses: Data Science, Computer Vision, Natural Language Processing, Algorithms
  ○ Spring '20 Courses (Planned): Machine Learning, Big Data, Operating Systems

- **KJ Somaiya College of Engineering (KJSCE), University of Mumbai** — Mumbai, India
  Bachelor of Engineering in Information Technology; Agg: 72.9% — *Aug 2011 – May 2015*

  ○ Data Structures & Algorithms, Discrete Maths, Software Engineering, Object Oriented Analysis & Design

EXPERIENCE

- **Computer Science Department, Stony Brook University** — Stony Brook, NY
  Teaching Assistant for course Programming Abstractions, Prof. Ritwik Banerjee — *Sep 2019 – **Present***

- **JP Morgan Chase & Co.** — Mumbai, India
  Application Developer/Associate — *May 2017 - Jul 2019*

  ○ **Migration to Web UI (REST/WebSockets)**: Re-architected server-side services to support web based user interfaces using streaming architectures for real time data with proxy/ gateway service to route requests from authenticated and authorized users to services in a load-balanced manner.
  ○ **Latency Monitoring**: Developed non-intrusive ways to gather, store, visualise and analyse metrics for latency across backend services to identify bottlenecks and performance improvement options.
  ○ **Compliance Reporting**: Developed data collection mechanisms to track and compare client portfolio before and after trade, for reporting to compliance teams.
  ○ **Database Integration Framework**: Designed and built a generic framework to make database integration and migration to new database technologies easier & faster.
  ○ **Automated Performance Testing**: Set up and implemented automated performance testing processes which were done manually by the development team prior to each release.

- **LiveFiesta Pvt. Ltd.** — Mumbai, India
  Lead Android Developer — *Jun 2016 - Jan 2017*

  ○ **Consumer Application**: Designed and developed Android application for customers to book tickets to various events across the country. Technical features included payment gateway integration, push notifications, deep linking, Google Analytics. Leveraged MVP Architecture pattern along with design principles like dependency injection and others for clean, testable and maintainable code.
  ○ **Consumer Application Design**: Designed initial version of the Android application based on extensive research on UI/UX principles, color strategies, iconography and typography.
  ○ **Utility Applications**: Developed utility application to redeem tickets for convenient one-time entry to customers. It reduced entry time, shortened queue lengths and cut losses due to ticket duplication and un-tracked re-entrants. Another application tracked delivery of physical tickets. It helped delivery crew with logistics through Google Maps integration and business with auditing of physical tickets.

- **TechGenium** — Mumbai, India
  Software Developer & Partner — *Jun 2015 and May 2016*

  Developed mobile and web-based products addressing specific needs of small and medium scale businesses.

PUBLICATION

- **Visualization of Mechanics Problems based on Natural Language Processing** — Mumbai, India
  International Journal of Computer Applications — *Apr 2015*

Projects & Achievements

- **Physual (Capstone Project)**: Application generated a 3D scene for visualising Newtonian Mechanics Problems using NLP. Came in 3rd in state level competition Prakalpa 2015 and 2nd in Tatva (2015) for presenting associated research paper.

- **Smart Home Solution**: Android application to control electrical appliances remotely over the internet. Project was done in collaboration with students from Electronics department. Received 1st prize under category 'Sustainable Development' at Prakalpa 2014, KJSCE.

- **HoldingWilley (iOS App)** : Developed iOS app for Kustard Technologies Pvt. Ltd. that fetches real time scores for cricket matches around the globe and shows ball by ball updates, full score card and commentary.

- **GATE**: Stood 923rd (top 1%) in national level exam, Graduate Aptitude Test in Engineering (2015), among more than 115,000 students in Computer Science.

- **WaveView** : A simple open-source Android library for drawing and animating sinusoidal waves.

- **MOOCs**: Completed a specialization in Mathematics for Machine Learning and other courses on Python Fundamentals, Interactive Programming in Python, Game Programming in C# and Android Programming.

Technical Skills

- **Programming Languages**: Proficient in Java & Python , experience with Swift, C, C++, HTML, CSS, JS
- **Database Technologies**: MongoDB, SQLite, MySQL
- **Frameworks & Tools**: Spring, Android, iOS, Jupyter Notebooks, Angular, LaTeX, Kafka, Zookeeper, Gradle, Maven, Elastic, Logstash, Kibana, Git