Payal Mehta

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Education

Stony Brook University **Stony Brook, NY**
Master of Science in Computer Science; CGPA: 3.08/4.00 *Aug 2019 - Dec 2020*
Major Coursework: Natural Language Processing(A), Analysis of Algorithms(B+), Data Science Fundamentals(B), Database Systems(C), Probability and Statistics for Data Scientists, System Security, Visualization

K.J. Somaiya College of Engineering **Mumbai, India**
Bachelor of Technology in Computer Engineering; CGPA: 9.13/10.0 *Aug 2012 - May 2016*
Major Coursework: Data Structures, Big Data Analytics, Theoretical Computer Science, Soft computing.
(Rank 1 in department of Computer Engineering -**Ratan Tata Award Winner for outstanding academics)**

Technical Skills

- **Languages**: Java (4 years), SQL (3 years), Python (2 years), C (1 year), LaTeX (1 year)
- **Web Technologies**: HTML (4 years), CSS (4 years), PHP (2 years), Javascript (1 year)
- **Tools And Technologies**: AWS, Git, Oracle 11g, My SQL,Datalog, PostgreSQL, IntelliJ, NetBeans, Eclipse, Maven, Gradle, Jboss 6.0, WildFly, Jira
- **Frameworks**: JUnit, CodeIgniter, Java EE, Apache Hadoop, Bootstrap

Experience

Barclays Technology Centre India **Pune, India**
Senior Application Developer *Mar 2018 - Jun 2019*
- Developed the bank's payment pre-processing and message routing system which helped accelerate the payment process,increasing the productivity by 55%.
  Core Java, Java EE, Enterprise Java Beans, Jboss 6.0
- Developed multiple enhancements and bug fixes for testing automation framework using JUnit and Arquillian resulting in 40% lesser production issues.

Technology Analyst *Aug 2016 - Mar 2018*
- Designed and supported the core payment processing engine of Barclays, Global Pay Plus - Responsible for designing business artifacts, high level solutions and the Technical Service Business Impact Assessment for High Value Payments.
- Optimized query execution time from 5 hours to 25 minutes on a task involving analysing about 3 million oracle db records as part of static Sanctions screening -**Received Barclays Global Recognition award for excellence.**
- Built and maintained a System Integration Catalog with 700 different connections to/from the payment engine leading to a reduction in requirement to workflow mapping time by 50% - **Received Barclays SPOT award for entry level individual work in designing a high level solution for the bank's High Value Payments space.**
- Responsible for taking over varied roles and responsibilities in the SDLC - waterfall model from requirement gathering and design to development and testing.

Research Innovation and Incubation Design Labs **Mumbai, India**
Web Developer Intern *Sep 2013 - Aug 2014*
- Developed the back and front-end for core features of the Indian Oil Corporation leading to a 45% increase in profits.
- Built website for a dental diagnostician, establishing her digital footprint which led to a 70% increase in customer base.
  PHP, CodeIgniter, HTML, CSS, Bootstrap, Javascript

Projects

- **"Learning Management System"**: Built a learning management system equipped with a recommendation engine based on Apache Hadoop to generate course recommendations for students to facilitate on-the-go learning. Hosted on Amazon Web Services(AWS).
  Paper accepted in IJCA: https://www.ijcaonline.org/archives/volume140/number10/24627-2016909449
  PHP, CodeIgniter, HTML, CSS, Javascript, Hadoop
- **"Sentiment Analysis"**: Developed a Gated Recurrent Unit and a Deep Averaging Network to predict whether a sentence conveyed positive or negative sentiment.
  Python, Tensorflow
- **"Fraud predictor"**: Built a linear regression model to predict whether a particular transaction is fraud or valid.
  Python, Pandas, Scikit-learn, Numpy, Matplotlib, Seaborn, BeautifulSoup
- **"PDF comparator"**: Developed a software to compare files and return the exact indices where they differed.
  Python
- **"Word analogies prediction"**: Built and designed a word2vec model for predicting analogies between words using word embeddings.
  Python, Tensorflow