Payal Mehta

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Education

Stony Brook University **NY, USA**
Master of Science in Computer Science; CGPA: 3.48/4.0 *Aug 2019 - Dec 2020*
Major Coursework: Natural Language Processing, Data Science, Probability and Statistics for Data Scientists, Analysis of Algorithms, Database Systems, Data 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, Project Management, Soft computing and Neural Networks
(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)
- **Web Technologies**: HTML (4 years), CSS (4 years), PHP (2 years), Javascript (1 year)
- **Tools And Technologies**: React js, Tensorflow, AWS, Amazon EC2, Amazon Lambda, Git, Oracle 11g, My SQL,Datalog, PostgreSQL, IntelliJ, NetBeans, Eclipse, Maven, Gradle, Jboss 6.0, WildFly, Jira, Latex
- **Frameworks**: JUnit, CodeIgniter, Java EE, Apache Hadoop, Bootstrap, Flask, D3.js, React.js

Experience

Amazon **Seattle, USA**
Software Developer Intern *June 2020 - Aug 2020*
- Working in Amazon CornerStone - AdSearch Platform as a full stack developer - Designed and Developing an application to provide real time view of critical data of Caldera's (ref datastore) state and executions that are beneficial to Ad Search team developers in maintaining the service. This can be wrapped into a DevX tool to provide Cinder Flow Script owners insights on performance and metadata of their ad documents.

  Java, Javascript, AWS, Docker

Barclays **Pune, India**
Application Developer *Aug 2016 - 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.
- 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 Payments space.**

Projects

- **"Password-less Authentication Model"**: Awarded Best Security Hack: The Future of Safety Hack @CEWIT Hackathon 2020. Developed a password less ultrasonic authentication model for data transfer over sound waves. (CEWIT Hackathon @SBU – Feb 2020) Link:- https://devpost.com/software/passwordless-ultrasonic-auth
- **"Low Vision E-reader"**: Worked on an independent research project where I developed a software to parse chat conversations in websites like Stack overflow to display a directed graph for people with low vision.
  Python- Flask
- **"Cryptocurrency DashBoard"**: React Data Visualization - Built a Cryptocurrency Dashboard using Modern React Development with React and React Context API for State Management.
  React, Javascript, CSS, Styled Components v4, Lodash : Functional Programming
- **"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 (All of my projects can be seen on the github link shared above)