Siddhant Johan Barua

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EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Master of Science in Computer Science; GPA: 3.8/4.0

August 2018 - May 2020

Relevant Coursework: Algorithms, Web Programming, Cyber Security, Computer Vision, Operating Systems

Machine Learning, Concurrent Programming, TCP/IP networking, Human Computer Interaction

P.E.S Institute of Technology

Bangalore, India

Bachelor of Engineering in Computer Science; GPA: 7.03/10

August 2012 - July 2016

SKILLS

Front-End Technologies: React, Bootstrap, Redux Languages: C, C++, Python, Java, JavaScript, HTML/CSS Database Technologies: MongoDB, SOL, MariaDb

Frameworks: Sklearn, Socket I/O, Flutter, Node, js, Express. js, GraphQL, Docker, Django, Twilio

EXPERIENCE

HGS Digital Chicago, USA

Software Engineer

September 2020 - Present

- Advanced API based integration of Twilio Flex and Amazon Connect platform with various CRM's (like Salesforce, Oracle RightNow, etc) for Cloud telephony and data feeds
- Re-innovated the architecture of server side data-cache to an opt-in opt-out architecture, in lieu of an absolute cache storage architecture hence improving server response times by 86%
- Enhanced CCaaS RESTful API's to include customer sentiment analysis using AWS Comprehend
- o Formulated a SSE based API, integrated with a look-up table in order to synchronize 3 disjoint web applications
- Engineered Facebook, Whatsapp & Video Conference extensions to sandbox solutions, hence doubling customer outreach
- o Developed a special character triggered text suggestion feature as an addition to web-chat functionality

Tally SolutionsBangalore, IndiaSoftware Engineer InternAugust 2017 - May 2018

• Tally Connector : Mobile Application

- * Provided proof of concept and performed testing for the Sales Aggregator RESTful Api, built using Dynamic Arrays in Java, reduced end of day sales aggregation from 45 minutes to a few minutes
- * Inventory Management Engineered the migration from an array data structure to a thread safe hash map data structure in Java, increased lookup efficiency from O(N) to O(1)
- Tally.ERP 9 (business management software): Innovated a priority queue data structure into the Order Management module,
 prioritizing based on a function of order size, delivery requirement, frequency etc. Amplified delivery compliance by an estimated 44%

Zynga Bangalore, India

Game Design Intern

December 2016 - June 2017

- o Farmville Assets: Designed over 800 assets for the game Farmville
- o Farmville Cadence: Conceptualized the GET operation for Farm Crops, for over 10 front-loaded monthly Quests
- o Lead Designer of the Feature Adventurer's Inc, created design specs & XML format as well as performed prototype testing
- Proposed reduction of in-game asset price by 20% for Adventurer's Inc. Resulting in more than 37% increase in in-game spending

PROJECTS

- BudgetFlix: A video streaming website that aims to emulate the functionality of Netflix, using JavaScript, React, AWS and Python
 - Developed Front-End components using React & React video API for playing the videos, Back-End API implementation using Express.js and hosted on heroku. During it's live period saw close to 90 distinct users
 - Leveraged the scalable storage services of Amazon S3, to simulate a movie repository
 - Established a like/dislike feature based on which the machine recommends movies (1,000,209 anonymous ratings Training Set)
 - o An Auto-Encoder Neural Network model built on Keras and Flask framework, performs the operation of suggesting similar movies
- Video Game Sales Prediction: A python based machine learning project that uses periodic sales data of video games in distinct regions and other factors, to predict global sales
 - A Kaggle data-set is used as the basis for training and testing (10,000 unique ratings)
 - The data is cleaned and the relevant factors(columns) are standardized (almost 600 missing ratings)
 - o Considers MSE(Mean Squared Error) and MAE(Mean Absolute Error) as the basis for regression model comparison
 - o Models established: Linear Regression, Random Forest, Boosting, SVM (Support Vector Machine, Using SVR Support Vector Regressor)