Jayant Bhopale

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Education

The University of Texas at Dallas, TX, USA — **Aug 2019 – May 2021**
Master of Science in Computer Science — CGPA 3.6/4

University of Mumbai, MH, India — **Jun 2014 – Jun 2018**
Bachelor of Engineering in Information Technology — CGPA 8.22/10

Technical Skills

- **Programming:** C, C++, Java, Swift, Objective-C, Javascript, Python, Data Structures, Object Oriented Design
- **Web Technologies:** HTML5, CSS3, PHP, Laravel, JSON, MVC, REST, Postman, Responsive Web Design
- **Others:** SQL, SQLite3 OpenCV, Android, Cocoa, Linux, vim, JIRA, Agile, Shell Scripting, Perl, COBOL, Mainframes

Work Experience

Software Engineer Intern, HHAeXchange, TX, USA — **Aug 2020 – Present**
- Developing a chat system in integration with **sendbird** for iOS app users and efficient back end REST APIs using C#
- Working in a scrum team of 8 and cross-functional teams on troubleshooting issues in design, product, and other units

iOS Engineer Intern, MNK Infotech Inc, TX, USA — **May 2020 – Aug 2020**
- Built the iOS quiz app from scratch and assisted the CTO in designing **system architecture, flow and UI mocks**
- Implemented password-free OTP (Globally over email and cellular devices in 3 countries) based login and registration
- Proposed **3 app themes** in integration with Material Cocoa that can be fully customized as per user preference
- Added feature to download and save quizzes in sqlite3 database to play offline in absence of internet connection

Software Engineer, Tata Consultancy Services, MH, India — **Jun 2018 – Jul 2019**
- Developed transactions in **ISO8583** standard for Automatic Teller Machines, Credit and debit cards, Unified Payment Interfaces, Mobile banking and Internet banking interfaces using **Java, COBOL and DB2**
- Mentored the team of 3 members to automate the call center application that processes more than **1000** customer requests simultaneously. **Minimized** the wait and response time by **60%** for processing requests
- Planned and created **One Time Password** based debit card PIN change through ATM. Reduced efforts by **70%**

Research Intern, Tata Institute of Fundamental Research, Mumbai, IN — **May 2017 – Jun 2018**
- Worked in a team of four to create an application to extract handwritten text from images into the editable file format
- Performed image processing using **OpenCV with C++** and Machine Learning using **Multi-class SVM**
- Achieved **81%** accuracy for hand written text and **94%** for digital text recognition. Won the best project award

Acadamic Assistantship

Teaching Assistant, **The University of Texas at Dallas, USA** — **Sept 2019 – May 2020**
- Conducted and graded 25+ lab sessions, assignments and projects for the undergraduate **C++ Programming** class
- Managed the record for **100 students** in two semesters and solved course relevant issues and queries

Projects

Twitter Sentiment Analysis
- Simulated the sentiment analysis of live tweets from Twitter for selected hashtags. Visualized each tweet's positive, neutral, and negative score on scale -5 to +5 points. Used **Kafka, Apache Spark, Elastic-search, Kibana**

Multi-dimensional Search
- Implemented a Multi-dimensional search algorithm for a system with a large number(1M+) of products with ID, Price, and Description. **Optimized** find, insert, delete, and other methods using Java **TreeMap, HashMaps and TreeSet**

eBay Database Design
- Modeled the database system of eBay in **MySQL** and reduced to 3rd Normal Form. **triggers and stored procedures** for events and actions on product published, purchase bid place, user's purchase history, a product sell status

Registration and Login portal - **Fr. Agnels, Vashi, India**
- Lead the team of 10 members to improve the login feature of the university portal for students, faculty, staff, and non-staff members. Used **CodeIgniter and material design** framework to enhance the performance and user experience.