Rishabh Jain

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Currently, pursuing MS in CS at Stony Brook University. Have 3+ years of professional work experience developing web frameworks with high throughput and low latency. Experienced in object-oriented design and development of J2EE applications. Working as a Teaching Assistant for "*Introduction to Data Structures and Algorithms*" under Prof. Ahmad Esmaili.

Education

MS, Computer Science, Stony Brook University, NY — Aug'18 - Present
BE, Computer Engineering, Netaji Subhas Institute of Technology, Delhi — Aug'11 - May'15

Technical Skills

Languages: Java, C, C++, Python, JavaScript
Databases: Sybase, MySQL
Frameworks/Libraries: Apache CXF, Spring MVC, Spring Data JPA, Gemfire, Guava cache, Swagger, GraphQL, AngularJS
Technologies: SOAP and RESTful web services
Tools: Git, SVN, Jira, Eclipse, Intellij, SoapUI, JMeter

Professional Experience

Senior Associate, Morgan Stanley, Bengaluru — Oct'17 - Jul'18

- Account/Party maintenance with Write Back Cache
  - Implemented write back cache architecture in Java to update account/party data while writing asynchronously to database.
  - Developed Google Protobuf solution to encode the service request and response, improving latency by 50%.
  - Improved User experience for IRD, COB users by reducing the service response time by more than 70%.

Senior Software Engineer, Accolite Inc., Bengaluru — Jul'15 - Oct'17

- ObjectModel and Distributed Cache
  - Implemented distributed "Gemfire" caching system for COB(Client On Boarding) application, allowing users to access data extremely fast by developing RESTful and SOAP APIs on top of cache to read data from cache instead of database.
  - Implemented GraphQL solution for reading partial data for external clients, thereby improving network latency.
  - Brought down response time of web service to 60 ms as compared to 2 seconds earlier.
  - Handling 5000 requests per second, the system was running 200 million evaluations in 12 hours, the same used to take more than 2 weeks before.
- Conference Room Management System (CRMS)
  - Developed Conference room management system (CRMS) which is used to book conference rooms across multiple locations of a company using Java, Spring, Hibernate.
  - Designed and developed intuitive graphical user interfaces using HTML5, CSS, AngularJS framework.

Summer Intern, Samsung Research Institute, Bengaluru — Jun'14 - Jul'14

- Access Control System using OTPs
  - Analyzed and implemented One Time Password (OTP) algorithms including TOTP, HOTP, and OCRA.
  - Developed an android application for access control system using One Time Passwords.

Projects

Gesture Recognition System and Cursor Control

- Developed a tool to recognize hand gestures in real time using web camera and control cursor using index finger.
- Implemented a Haar-feature cascade classifier using OpenCV library in C++ to train the data set for recognizing gestures.
- For controlling cursor, used K-means to find best k cluster centers of RGB values of pixels in image.

Machine Learning course from Coursera

- Spam Detection System: Preprocessed and tokenized raw emails, trained SVM to detect spam.
- Movie Recommender System: Predicted user ratings and made recommendations based on preferences. Used conjugate gradient algorithm to minimize regularized cost function for collaborative filtering.

Automatic Language Detector

- Given a piece of text, developed a tool that detects the language of that text.
- Built an index of words in the data set of four languages and used Bayes algorithm detect the language.

Achievements

- Top Performer of the Year 2015-16 and Exceptional Talent Award Oct-Dec 2016 Quarter At Accolite Inc.
- Participated for onsite regionals at ACM-ICPC 2014. Among top 200 teams selected in 1500+ teams for onsite regionals.