

Garima Chhabra

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EDUCATION

University of Utah, School of Computing | Salt Lake City, Utah

May 2019

MS in Computer Science | GPA:3.6

Rajiv Gandhi Prodyogiki Vishwavidyalaya, Medicaps | Indore, India

June 2016

B.E. in Computer Science | GPA:3.9

SKILL SET

Programming Languages: C, C++, Java, Python, HTML5, CSS3, PHP, JavaScript

Tools & Technologies: Git, Eclipse, IntelliJ, PyCharm, Splunk, WordPress, Anaconda, Bitbucket, JIRA, Kafka, RabbitMQ

Database and Operating Systems: MySQL, Oracle, Windows, OS X, Ubuntu, CentOS

EXPERIENCE

Software Engineer | **Galileo Financial Technologies, Inc.** | Salt Lake City, Utah

Aug 2019-Present

- Working in a team of two on Automated Clearing House (ACH) Transaction's processing to allow better and faster ways of money movement between banks by generating and consuming NACHA files for/from banks for all incoming and outgoing transactions using **C, Python, RabbitMQ** and **Oracle**.
- Leading project to add support to handle larger sequence numbers in the database throughout backend code base as the current system (DB and codebase) is reaching its max limit.
- Worked with different associations-Visa and Pulse to implement features to authorize different types of payments.

Software Engineer Intern | **Symantec** | Draper, Utah

Jan 2019-May 2019

- Worked with Management Center (MC) to setup environment for MC instance on **KVM** to ping it directly without accessing host.
- Involved in development and maintenance of MC features using **Java, JavaScript, JIRA**.

Teaching Assistant | **University of Utah** | Salt Lake City, Utah

Aug 2017-Dec 2018

- Assisted course content creation, designed and lead discussion sessions, and organized and facilitated classroom lessons, activities and presentations for Discrete Mathematics.

Software Developer Intern | **Scientific Computing and Imaging Institute** | Salt Lake City, Utah

Jun 2018-Aug 2018

- Worked on development of SCIRun, a tool for modeling, simulating and visualizing scientific problems using **C++ 11, Qt, Linear Algebra, 3D Math**.
- Developed several modules that helped in generating and resizing various standard matrices, documented developer's manual and performed unit testing.

Software Developer Intern | **Robosoft LLC** | Indore, India

Jun 2015-Jul 2015

- Developed an online bookstore targeting 3 audiences- beginners, intermediates and advanced readers, using **WordPress, JavaScript, PHP, MySQL, HTML and CSS**.

ACADEMIC PROJECTS

Stack Overflow Dataset Mining

- Designed a system to extract features of developers and explored patterns to identify how languages complement with one another. Also, detected buzz words in a question.
- Implemented **PCA, t-SNE, k-means clustering and frequent directions** algorithms in **python3** and **Matlab**.

Local Search Approximation for k-means Clustering

- Developed an algorithm to improve performance of k-means clustering using **python 3** which presents a local improvement heuristic based on swapping centres in and out.

SimpleDB - Mini Database System

- Built a mini-database system called SimpleDB using **Java, Git**.
- Major modules developed include- heap file for database storage engine, buffer management module and join operator implementation.

Internal Assessment System

- Automated existing paper-based assessment system, using **Java, JavaScript, HTML, CSS and MySQL**.
- Reduced the number of hours spent on manually maintaining academic record by creating repository to upload assignments, quizzes; grade them and submit academic records.