Shivam Dalmia

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Education

UNIVERSITY OF CALIFORNIA – LOS ANGELES, CA, USA	*Sep 2018 – Apr 2020*

M.S., Computer Science. GPA: 3.61/4

RAMAIAH INSTITUTE OF TECHNOLOGY, Bangalore, India	*Sep 2010 – Jun 2014*

B.E., Computer Science and Engineering. CGPA: 9.32/10

Skills and Tools

Java ▪ C/C++ ▪ Spark ▪ Spark SQL ▪ Hadoop ▪ MongoDB ▪ Spring ▪ Python ▪ Linux ▪ Git ▪ HTML/CSS ▪ JavaScript & jQuery ▪ IntelliJ IDEA ▪ JUnit ▪ Mockito/JMockit ▪ Docker ▪ Alluxio ▪ JUnits and JMockito ▪ Maven/Gradle ▪ Object Oriented Design ▪ Agile Methodology ▪ JIRA, BitBucket, Stash

Experience

CISCO, North San Jose, CA, USA

Software Development Engineering Intern   *Jun 2020 – Present*

Skills & Tools: Java, React, Junit, Kubernetes, Docker, C
- Developed features for Cisco's DNAC Plug n Play (PNP) system in backend and UI, using Java, React, Mongo
- Improved code coverage and quality of existing code by writing/refactoring JUnits extensively
- Performed scale testing and improvements for clients to be able to interact with up to 3000 devices through the PNP UI without visible lag

AMAZON DEVICES, Sunnyvale, CA, USA

Software Development Engineering Intern   *Jun 2019 – Sep 2019*

Skills & Tools: **C++11, C**, Deep Learning
- Achieved ~14% speedup in matrix multiplication and basic CNN inference by setting up a framework for Alexa's speech recognition engine
- Used Intel's Deep Neural Network Library (DNNL) for real-time speech inference

DELOITTE CONSULTING USI, Bangalore, KA, India

Consultant/Associate Software Developer   *Oct 2015 – Sep 2018*

Skills & Tools: **Java, Spark**, Spring, Hadoop, Docker, JUnit, Git, OO Design
- Developed for an analytics framework that was used to acquire, prepare and analyze large delimited text data using Apache Spark; built and maintained REST/JSON micro-services for ingestion, dataflow execution, querying and retrieval
- Effected improvement in analysis performance in certain scenarios by up to 70%; using Spark to create complex analysis and query operations and building tools to evaluate the results and performance of these operations
- Led implementation and design of features using Java and Spring, facilitating analytics, querying, ETL, dataflow-building (using Spark and Spark SQL) and NFRs (e.g. visualization dashboards, security and access controls, logging, etc.)
- Served as code review gatekeeper for the team of 8 associate and 3 senior developers and was part of the engineering standards board, mentored and assisted junior members and peers extensively

MANTHAN, Bangalore, KA, India

Trainee   *Mar 2015 – Sep 2015*

Skills & Tools: **Java**, JSP, JavaScript, HTML, CSS, SQL, JDBC, Hibernate
- Fixed and maintained ~90 issues for existing analytics product; ported existing JDBC code to an ORM model as a proof-of-concept
- Independently developed a front-end user-interface that displayed real-time user data from a cloud server (AWS)

Projects, Papers and Symposiums

- *Automatic Text Summarizer* A tool for summarizing text using extraction techniques and replacing certain words with synonyms - developed in **Python**, using the principles of TextRank and WordRank; published a paper on the same which was presented in International Conference on Advances in Computing, Communications and Informatics (ICACCI 2014). Received **Best Project Award** from **MSRIT Alumni Association**
- *Served as Reviewer* for 2nd IEEE International Conference on Communication Systems, Computing and IT Applications 2017
- *Spark Intelligent Caching Recommender* – A tool to suggest datasets that would benefit from caching in a dataflow

Other Experience, Awards and Achievements

- *Teaching Assistant At UCLA* for the undergraduate courses:
  - *Software Construction Laboratory* – Taught basics of Linux, compilation process, git, ssh etc. to undergraduate students in a TA-led class; receiving highly positive reviews from students
  - *Introduction to the Study of Language* – Led discussions on linguistics principles and study
- *Coordinator for Computer Science Graduate Student Association at UCLA*
- *Mentored interns and led knowledge transfer sessions for new hires at Deloitte*
- **Won Applause Awards at Deloitte** *'for personifying team spirit and for impressive delivery of work in building Data Workbench product'* and *'for taking initiative with improving coding best practices and driving deliverables'*