

## Senior Software Engineer

Experienced Senior Software Engineer with 7+ years of experience developing clean, easy-to-maintain code. Objective and analytical engineer passionate about following best design principles to deliver measurable results. Recognized team member for personifying team spirit and mentoring junior engineers.

### ▣ CORE COMPETENCIES

Software Engineering – Backend and Frontend Development – Clean Code – Big Data Systems - Databases

### ▣ TECHNICAL SKILLS

**Programming:** Java, JavaScript, React, JQuery, HTML/CSS, Python, C/C++

**Tools/Technologies:** Spark, Spring, Hadoop, Docker, Kubernetes, Microservices, RESTful services, HTTP, MongoDB, RDBMS/SQL

**Project Management Methodologies/Tools:** Agile, JIRA, Object Oriented Design, Design Patterns, CI/CD, Jenkins, JIRA, Stash/Bitbucket

### ▣ RELEVANT EXPERIENCE

**CISCO** | San Jose, CA

**Jun 2020-Present**

#### Software Engineer

Developed and maintained features for Cisco's DNA On-Prem network management interface as part of the Plug-N-Play (PNP) team. Engineered backend (Java) and frontend (React) code. Coded, deployed, and tested features on Cisco clusters and networking devices using Docker, Kubernetes & Cisco IOS.

*Technology:* ▪ Java ▪ React ▪ Linux ▪ Docker/Kubernetes ▪ Cisco IOS

- Reduced page load time by 30% and improved customer experience by overhauling UI to use modern widgets, customize elements, and improving search using backend APIs.
- Led to measures that improved performance time by 40% by simulating hundreds of devices using Docker to test performance at scale.
- Minimized failure rates by 90% for image installation due to space issues by designing and implementing feature that dynamically inserted actions into workflow based on device type and image size. Also enhanced device side code to enable process.

**DELOITTE CONSULTING USI** | Bangalore, India

**Oct 2015-Sep 2018**

#### Consultant, Associate Software Developer

Developed for analytics framework 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. Led best practices and standards for team of eight associates and three senior developers as code review gatekeeper.

*Technology:* Java ▪ Spark ▪ Spring ▪ Hadoop ▪ Docker ▪ JUnit ▪ Git ▪ Object Oriented Design

- Improved analysis performance by up to 70% in certain scenarios by using Spark to create complex analysis and query operations and building tools to evaluate results and performance of operations.
- Received multiple Applause Awards for "personifying team spirit and for impressive delivery of work in building Data Workbench product" and "taking initiative with improving coding best practices and driving deliverables."
- 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.).
- Drove collaborative team success by participating on engineering standards board and mentoring junior team members and leading knowledge transfer sessions for new hires.

**ALGONOMY (formerly MANTHAN) | Bangalore, India****Mar 2015-Sep 2015****Software Engineer**

Backend & Frontend software development for a leader in algorithmic customer engagement.

*Technology:* Java ▪ JSP ▪ JavaScript ▪ HTML ▪ CSS ▪ SQL ▪ JDBC ▪ Hibernate

- Fixed and maintained ~90 issues for existing analytics product.
- Worked on porting existing JDBC code to ORM model (Hibernate) as proof-of-concept.
- Developed frontend user interface using jQuery, HTML, CSS to display real-time user data from an AWS server.

**▣ ADDITIONAL EXPERIENCE****AMAZON DEVICES | Sunnyvale, CA****Jun 2019-Sep 2019****Software Development Engineering Intern**

Established frameworks for Alexa's speech recognition engine. Researched and applied Intel's Deep Neural Network Library (DNNL) for real-time speech inference.

*Technology:* C++11 ▪ C ▪ Deep Learning

- Improved matrix multiplication performance by 60% for voice recognition and responses by transforming system from open-source library to Intel math kernel library (MKL) to match Intel cloud processors; adapted for C++ and C in production.
- Delivered machine learning results within two months despite no prior field experience by independently ramping up on neural networks.

**UNIVERSITY OF CALIFORNIA, LOS ANGELES | Los Angeles, CA****Jan 2019-Jun 2020****Graduate Teaching Assistant | Jan 2019-Jun 2019 & Sep 2019-Jun 2020**

- Software Construction Laboratory course: TA-led course covering Linux basics, compilation process, git, ssh, etc.; received positive student reviews.
- Introduction to the Study of Language course: Led discussions on linguistics principles and study.

**▣ EDUCATION**

**Master of Science, Computer Science**, University of California, Los Angeles ▪ Los Angeles, CA

**Bachelor of Engineering, Computer Science**, Ramaiah Institute of Technology ▪ Bangalore, India

**▣ AWARDS & PUBLICATIONS**

**Reviewer**, 2<sup>nd</sup> IEEE International Conference on Communication Systems, Computing, and IT Applications ▪ 2017

**Best Project Award**, "Automatic Text Summarizer," MSRIT Alumni Association ▪ 2014

**Paper**, "Automatic Text Summarizer," International Conference on Advances in Computing, Communications, and Informatics (ICACCI) ▪ 2014

- ⇒ "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.

**▣ NOTABLE PROJECTS**

Spark Intelligent Caching Recommender, Java ▪ 2020

Concept for Mental Health Diagnosis, Texting/Typing patterns ▪ 2019

Health Dataset cleaning, scraping and feature analysis for cancer prediction, Python ▪ 2019