

# Ramprasadh Kumar

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## WORK EXPERIENCE

### Intel Corporation

Software Engineer Intern

June 2022 - May 2023

- Upgraded the CI Pipeline workflows, cutting build turnaround time by 20% to amplify development productivity(Python, Flask, TeamCity, RabbitMQ)
- Developed and deployed a monitoring tool for efficient management of GitHub repositories on the CI Pipeline, resulting in a 30% decrease in cloning time(Python, Kubernetes, Github API)
- Designed, tested, and validated the migration of static VM-based TeamCity Windows agents to a scalable Rancher flow, automating build processes and reducing manual intervention by 50% (Docker, Kubernetes, TeamCity, Rancher)

### Cisco Systems Inc.

Software Engineer III

Jun 2021 - Aug 2021

- Automated an Invoice Matching application, eliminating manual audits for invoices over \$200,000 (Python, Django, Java Spring Boot, OpenCV)
- Setup automated CI/CD pipelines for all projects, reducing deployment time and ensuring faster updates with 4-9s uptime(BitBucket, Jenkins, Spinnaker, Kubernetes, Openshift)

Software Engineer II

Mar 2019 - May 2021

- Established a comprehensive monitoring system for the Procurement to Pay sphere, reducing the Procurement Operations Team workload by 70% and increasing efficiency(Java Spring Boot, Angular, MongoDB, OracleDB)
- Engineered a high-performance data streaming pipeline, achieving real-time updates and reducing data latency by 50% (Java Spring Boot, Kafka, Snowflake, OracleDB)

Software Engineer I

Jul 2017 - Feb 2019

- Led the development and integration of the company's procurement services with Ariba, deploying a system of 15 micro-services and Integration Tool Kits. This transition from On-Prem to Cloud improved user experience and response times by 40% (Java Spring Boot, OracleDB, PL/SQL)
- Created a Search Engine on Cisco Supplier Systems with ELK Stack, enabling efficient search and retrieval of information, resulting in a 90% reduction in search time for users (Java, Elasticsearch, OracleDB, AngularJS)

Software Engineer Intern

Jan 2017 - Jun 2017

- Modernised the legacy expense submission tool and implemented a modular & scalable system, handling over 5 million transactions annually, resulting in a 50% reduction in report processing time. (Java Spring Boot, Angular, OracleDB, PL/SQL)

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, PL/SQL, C++, HTML, CSS, Bash

**Databases/Pub-Sub Systems:** Oracle SQL, MongoDB, Snowflake, Elasticsearch, Redis, DynamoDB, Kafka, RabbitMQ

**Frameworks:** Spring Boot, Angular, Flask, Django, Spark, Hadoop, ELK Stack, React

**Continuous Integration/Continuous Delivery (CI/CD):** Docker, Kubernetes, Openshift, Rancher, Jenkins, Teamcity, UrbanCode Deploy, UrbanCode Release, Spinnaker, AWS

**Testing/ Code Quality:** JUnit, Mockito, Jasmine, Jest, SonarQube, Rapid7, BurpSuite

## EDUCATION

**The University of Texas at Dallas, TX**

Aug. 2021 – May 2023

Master of Science in Computer Science

- **Courses:** Design and Analysis of Computer Algorithms, Advanced Operating Systems, Distributed Computing, Object Oriented Analysis & Design, Machine Learning, Natural Language Processing, Big Data Management and Analytics

**Amrita School of Engineering, Coimbatore**

Jul. 2013 – May 2017

Bachelor of Technology in Computer Science and Engineering

## PROJECTS

**Sentiment Detection on reddit comments (Python, Elasticsearch, NLTK, Kibana, Spark)**

Jan 2023-Mar 2023

Sentiment Detection built to retrieve real-time Reddit comments for overall sentiment analysis with 93% accuracy.

**FloodMax Algorithm for leader selection in a synchronous distributed system(C++)**

Jan 2022-May 2022

Simulated a synchronous distributed system with n processes and using FloodMax algorithm with multi-threading, leader was found at the end of the execution.

## ACHIEVEMENTS

- Placed among top 5% teams in **ACM ICPC** Regional Finals.
- Received **Cisco Outstanding Award** in a given quarter.
- Led initiative to build playscapes for children at Haraluru Government School as a member of **CSR** wing at Cisco.
- Volunteered for **Missing Maps** Project by **American Red Cross**, identifying missing structures after calamities/disasters.