

Ramprasadh Kumar

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WORK EXPERIENCE

Intel

Hillsboro, OR

Software Engineer Intern

June 2022 - May 2023

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

Cisco

Bangalore, India

Software Engineer III

Jun 2021 - Aug 2021

- Developed an Automatic Invoice Matching application eliminating manual audits for invoices over \$200,000 (Python, Java Spring Boot, OpenCV)
- Implemented automated CI/CD pipelines for all projects, reducing deployment time and ensuring faster delivery of software updates (BitBucket, Jenkins, Spinnaker, Openshift)

Software Engineer II

Mar 2019 - May 2021

- Developed a comprehensive monitoring system for Procurement to Pay sphere, reducing the Procurement Operations Team workload by 70% and increasing efficiency (Java Spring Boot, Angular, MongoDB, OracleDB)
- Architected Data Streaming pipeline from Commerce Database to Snowflake, resulting in real-time updates and improved data efficiency (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

- Redesigned 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, India

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 model built to retrieve real-time reddit comments on a specific post for overall sentiment analysis.

FloodMax Algorithm for leader selection in a synchronous distributed system

Jan 2022-May 2022

Simulated a synchronous distributed system with n processes and using FloodMax algorithm with multi-threading, leader is 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.