

# Abhishek Hondad

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Innovative software engineer with demonstrated leadership and collaborative problem-solving skills. Experienced in architecting large-scale systems and committed to continuous learning.

## EDUCATION

<b>M.S. in Computer Science</b> - Arizona State University, Tempe, United States	April 2024
Cloud Computing (AWS), Distributed Database Systems, Foundations of Algorithms, Machine Learning	4.0/4.0
<b>Bachelors in Computer Science &amp; Engineering</b> - R.V. College of Engineering, Bangalore, India	May 2019
Data Structures & Algorithms, Object Oriented Programming (OOPs), Database Management System	3.9/4.0

## TECHNICAL SKILLS

Programming Languages	- Java, Python, C++, Golang
Web Technologies	- HTML, CSS, JavaScript
Databases	- MySQL, PostgreSQL, MongoDB, Cassandra, Redis, Elasticsearch
Infrastructure and OS	- Kafka, Docker, Jenkins CI/CD, Kubernetes, Linux, macOS, windows
Tools and Frameworks	- Spring, Spring Boot, Hibernate, Gradle, Maven, Git, Junit, Mockito, Microservices, Design Patterns

## PROFESSIONAL EXPERIENCE

<b>SAP, Bangalore, India – Software Developer</b>	January 2019 - July 2022
Meta-Data Frameworks team at SAP SuccessFactors: Java, Spring, Gradle, Agile Methodology, Test-Driven Development (TDD).	
<ul style="list-style-type: none"><li>Architected <b>Kafka-based</b> messaging framework's metadata to optimize data capture, <b>minimizing database load</b>. Crafted <b>APIs</b> to efficiently populate message payload and <b>optimized its size by 50%</b> through memory analysis.</li><li>Spearheaded a <b>Hackathon-winning team</b> to accelerate test case execution time in the CI/CD pipeline by <b>3x</b>, resulting in <b>two granted patents</b>. - Jacoco, SAX Parser, Neo4j</li><li>Directed a <b>cross functional initiative</b> with a team of 3, analyzing over 10Billion rows to tackle <b>high-priority customer</b> tickets. Strategically revamped fundamental data model validations, achieving a <b>4x mitigation in issues</b>.</li><li>Bolstered <b>performance</b> of the Attachment Processing module by <b>45%</b> through SQL and workflow optimizations.</li><li>Headed enhancement of <b>GDPR framework</b> for custom data structures, improving compliance and mitigating privacy risks.</li></ul>	

**Responsibilities:** Own End-to-End Feature, Code review, Design Documentation, Release Support, Mentor team members

**Recognition:** Make It Happen Together (Team Support Excellence), Keep the Promise (Customer-focused Deliverables Commitment)

## INTERNSHIP

<b>ASU Decision Theater Network, Tempe, United States – Research Associate</b>	December 2022 – Present
<ul style="list-style-type: none"><li>Published a <a href="#">research paper</a> to assist complex decision-making through visualization frameworks. Leveraged real-time data analytics with an extensible architecture using Kafka, Redis, Elasticsearch, and Docker on Kubernetes.</li></ul>	
<b>TechSmith Corporation, East Lansing, United States – Software Engineering Intern</b>	May 2023 – August 2023
<ul style="list-style-type: none"><li>Fortified macOS application upgrade <b>framework</b> and strengthened data security for <b>65M users</b>. Achieved by migrating Sparkle (an open-source update framework) and <b>signature verification algorithm</b> to EdDSA. - Swift, Objective-C</li><li>Resolved <b>technical debts</b> and integrated <b>unit test coverage</b> to enforce quality benchmarks for git sub-modules.</li></ul>	

## PUBLICATIONS AND EXTRACURRICULAR

- [Publication](#) on real-time data analysis of twitter data leveraging visualization framework, US-RSE23 December 2023
- Patent** for an *algorithm to reduce test case execution time in CI pipelines*. [\[US – 17/121,665\]](#), SAP Labs December 2020
- Patent** for an *algorithm to link disconnected call graphs, addressing unique design pattern idiosyncrasies, ensuring a complete and reliable source code analysis*, [\[US - 17/121,496\]](#), SAP Labs December 2020
- President** at Rotaract club, R.V.C.E - Supervised 2000+ members, directed 50+ events, winning 10 regional-level awards.

## RELEVANT COURSE PROJECTS

- Developed a fault-tolerant **distributed Cassandra & Cockroach DB** for Mobile Supply Chain. Enhanced **data retrieval** by 45% with data sharding, indexing and caching. Ensured robust **transaction management** with concurrency control.
- Devised a queue length-based auto scaler for a given image recognition service using **AWS services** (EC2, S3, SQS, CloudWatch and Autoscaling).