

Abhishek Hondad

(602) 686-8655 | abhihondad123@gmail.com | <https://www.linkedin.com/in/abhondad/> | Tempe, Arizona

Driven Computer Science professional with proven software expertise; enthusiastic about embracing challenges and learning.

TECHNICAL SKILLS

Languages and Databases: Java, Python, JavaScript, MySQL, C++, PostgreSQL, SAPHana, Neo4j

Tools and Frameworks: Spring, Kafka, Git, Docker, Jenkins, Rest APIs, Junit, Mockito, Selenium, Linux, Design Patterns

PROFESSIONAL EXPERIENCE

SAP Labs, Bangalore, India – Software Developer

January 2019 - July 2022

MetaData Frameworks team at SAP SuccessFactors: Java, Spring, Gradle, SAPHana Database, Agile, Test-Driven Development.

- Envisioned and designed **payload metadata** for messaging framework. Developed functional **APIs** to efficiently fetch, process and populate message payload. Conducted memory analysis for **Kafka** message payloads and **optimized it by 50%**.
- Spearheaded **collaborative research** to optimize test case execution time in CI pipeline. Achieved **3x acceleration** by running selected tests in multithreaded environment, covering code flows impacted by new code changes. Awarded first place among 20+ teams as part of a **Hackathon** (5 weeks long) and filed **two patents** (granted).
- Led a **cross-functional initiative** with a team of 3, analyzing over 10Billion rows to tackle **high-priority customer** tickets. Strategically revamped fundamental data model validations, achieving a 4x mitigation in issues.
- Remodeled SQL and workflow components of Attachment (Files) Processing module, driving a **45% performance** increase.
- Improved compliance and reduced privacy risks by expanding the Read Log Access (**GDPR**) framework to support custom data structures. Lowered **bugs by 3-times** and enhanced test coverage to 98%.
- Crafted a data migration job to facilitate versioning of object instances to populate default values for over **2Billion rows**

Responsibilities: Code review, Backlog Refinement, Resolving Customer/Production issues, Release Support, Mentoring

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

INTERNSHIP

TechSmith Corporation, East Lansing, United States – Software Engineering Intern

May 2023 – August 2023

- Fortified macOS application upgrade **framework** and enhanced data security for **65M users**. Achieved by migrating Sparkle (an open-source update framework) and the **signature verification algorithm** to EdDSA. - Swift, Objective-C
- Identified gaps in **quality benchmarks** and integrated unit test coverage for 27 repositories. - GitHub Actions, Coverage.py

ASU Decision Theater Network, Tempe, United States – Research Associate

December 2022 – Present

- Published a **research paper** on a tool enabled with visualization framework for complex decision-making processes.
- Extending the research to develop **distributed framework for real-time social data analytics** using Kafka, Redis Cache, Elastic search, and Kubernetes-based Docker.

PUBLICATIONS AND EXTRACURRICULAR

- Patent** for an *algorithm that reduces test case execution time in CI pipelines*. [[US – 17/121,665](#)], SAP Labs December 2020
- Patent** for an *algorithm that links 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. Mastered strategic planning, fund-raising, communication, delegation, and collaboration skills.

RELEVANT COURSE PROJECTS

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

EDUCATION

M.S. in Computer Science - Arizona State University, Tempe, United States

Expected - April 2024

Cloud Computing (AWS), Distributed Software Development (C#, .NET), Distributed Database Systems

4.15/4.0

Bachelors in Computer Science & Engineering - R.V. College of Engineering, Bangalore, India

May 2019

Data Structures & Algorithms, Object Oriented Programming (OOPs), Database Management System

3.9/4.0