Suddhasvatta Das

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Summary

Currently a Ph.D. scholar in Computer Science & over 8 years of experience, with 4 years as a software engineer in the banking & finance sector & more than 4 years focused on research in software regression testing within agile frameworks & extensive agile transformations. My skills encompass the entire SDLC, from design to deployment. Additionally, I possess strong expertise in AWS, complemented by my white papers, making me a strong candidate for a solution architect role. My proficiency in effectively integrating legacy systems with contemporary cloud architectures & leadership abilities developed through mentoring and managing diverse teams during my doctoral studies uniquely equip me to create and implement scalable, secure cloud solutions.

Education

Ph.D. in Computer Science GPA : 3.72/4.00
Arizona State University, Fall 2025-Spring 2026 (Expected)
Dissertation: An Intelligent Requirement's Value Preserving Regression Testing for Agile Methods

Languages, Databases & Tools

Languages & DBs : C, C++, COBOL, JCL, SQL, DB2, MySQL, Postgres
Tools: ChnageMan, Endeavor, GitHub, DB2-File-Aid & Platinum, Zeke, CICS Explorer

Publications

Published Work:

- Chakraborty, A., Das, S., & Gary, K. (2024). Machine Learning Operations: A Mapping Study. arXiv preprint arXiv:2409.19416. Note: This is the preprint & is accepted at CSCE 2024
- Das, S. (2024, May). Agile Regression Testing. In 2024 IEEE Conference on Software Testing, Verification and Validation (ICST) (pp. 457-459). IEEE.
- Das, S., & Gary, K. A. (2024, June). Developing an Agile Mindset in Software Engineering Students. In 2024 ASEE Annual Conference & Exposition.
- Das, S., & Gary, K. (2024). Challenges and Success Factors in Large Scale Agile Transformation—A Systematic Literature Review. In International Conference on Information Technology-New Generations (pp. 405-416). Springer, Cham.
- Kalsi, M. S., Gary, K. A., Gupta, V., Das, S. (2022, May). A Tool for Syntactic Dependency Analysis on the Web Stack. In ITNG 2022 19th International Conference on Information Technology-New Generations (pp. 25-33). Cham: Springer International Publishing.
- Das, S., & Gary, K. (2021). Agile transformation at scale: A tertiary study. In Agile Processes in Software Engineering and Extreme Programming–Workshops: XP 2021 Workshops, Virtual Event, June 14–18, 2021, Revised Selected Papers 22 (pp. 3-11). Springer International Publishing.

Papers in Pipeline:

- Business Value Preserving Regression Test Selection in Agile - Communicated to XP2025
- A mapping study on identifying research trends & gaps in regression testing in agile - Communicated to MDPI Journal

Industry Experience

Software Engineer, Danske IT
Bangalore, April 2018 - July 2018

- Developed systems for the *Trade and Finance Group* of *Danske Bank* to process incoming transactions in real time of Exports, Imports, and Guarantees from Dot-Net systems, reducing processing time from 5 to 1 business day.

Software Engineer, Thomson Reuters
Bangalore, June 2017 - March 2018

- Developed & optimized simultaneous processing systems (up to 500,000 accounts) to set up new client(s) for the *Thomson Reuters* trading product *BETA*. Worked primarily on developing systems to convert client's data (from other trading platforms, e.g.: NFS, Pershing) appropriately to match BETA's data model and business rules
- Developed a *Data Backup* system from scratch for the entire BETA system to load the entire data back & resume trading within 2-3 hours in case of a system crash.

Programmer Analyst, Cognizant
Kolkata, Jan 2015 - June 2017
Project 1 - PBIS, J. P. Morgan and Chase:

- Developed & integrated module for a *new wire cash* payment source (Workstation)within the existing system to process transactions over 100,000 transactions sent from a different system.
- Developed modules to include validation rules for payments requiring *Credit Gateway and/or OFAC* for collateral & fraud checks respectively. The modules were were designed to handle payments from multiple origins (files, MessageQuees etc)
- Developed modules to allow customer account transfer (*ACATS*), in real time instead of batch processing

Project 2 - FLEX, Bank of New York Mellon:

- Developed modules to process and manage *custodial* accounts.
- Provided *production support* for nightly and daily bathes (over 500 jobs)

Awards

- SCAI, Doctoral Fellowship, Arizona State University (Spring, 22)

Reference

- Dr.K. Gary, kgary@asu.edu - Ph.D(Co-Chair)
- Dr.J. Collofello, JAMES.COLLOFELLO@asu.edu - Ph.D(Co-Chair)
- Mr. A.Chakraborty (Sr. Sol Architect MongoDB), achakr40@asu.edu - Collaborator