

Aditi MISHRA

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SUMMARY: Result-oriented, adaptive, and customer-centric Software Engineer with 5+ years of experience, adept at overseeing full-cycle operations in crafting, implementing, launching, and supporting resilient, expandable software solutions; Skilled in interpreting client requirements to deliver inventive solutions that fulfill technical specifications, elevate user interactions, and tactically advance organizational goals; Eager to leverage emerging technologies to deliver innovative solutions

EDUCATION

University of Nebraska at Omaha (UNO) — *MS in CS* AUG 2018 - DEC 2020
Thesis (*Defended*): Global Convergence in Large Sensor Networks in Hybrid Faults
Supervisor: [Dr. Azad Azadmanesh](#)

DR. A.P.J. Abdul Kalam Technical University, U.P., India — *Bachelor of Technology* AUG 2012 - JUNE 2016
Major: Computer Science & Engineering
Award: **Certificate of Excellence** for consecutive **three years**

WORK EXPERIENCE

Software Engineer — [Werner Enterprises](#) JAN 2023 - PRESENT

- Collaborating with architects and product managers to integrate cloud-based **SaaS products**(fleet management, logistics, critical event automation), resulting in seamless **workflow optimization** and **enhanced efficiency** for fleet managers
- Collaborating with **Ping Identity** to implement a unified **SSO** for mobile & tablets; **Simplified driver access** to pay and workday details while reducing login steps, **minimizing distractions** to enhance **safety** and promote **adherence** to break schedules
- **Proposed and spearheaded** the enterprise-wide transition to Visual Studio Code for MuleSoft development at Werner Enterprises, introducing the adoption of **GitHub Copilot** to **automate and optimize repetitive workflows** to enhance developer's efficiency
- **Mentoring** engineers to foster collaboration and actively contribute to the growth of the team
- **Tech stack:** .NET Core, C#, Angular, Ionic, MuleSoft, IaC, REST services, Microsoft Azure, GitHub Actions, Ping Identity, Factory design pattern, Serverless architecture, Microservices architecture, Domain-driven approach

Software Developer — [Werner Enterprises](#) NOV 2020 - DEC 2022

- **Led** the **automation** of multi-stop workflows, driver swapping, and rescheduling functionalities within the **Event Resolution System (ERS)**; **Increased** shipment load delivery predictability by **20%**, enabling Transportation Managers to resolve shipment and driver issues with greater efficiency, leading to **accelerated deliveries**; **ERS** was the recipient of Supply & Demand Chain Executive's (SDCE) **Top Supply Chain Projects Award 2022**
- **Led** the collaboration with [Daimler Trucks North America](#) to streamline repair order handling and maximize driver uptime; Reduced **average calls per repair order** by **83% (from 12 to 2)** and **minimized dwell time** by **30%**, ensuring the swift return of drivers to the road; [Newsletter1](#), [Newsletter2](#)
- Collaborated with [Decisiv](#) to automate maintenance and repair order processes, **saving 15 minutes per repair order**, enhancing driver satisfaction, and boosting fleet's production capability; [Newsletter](#)
- Collaborated with [Navistar](#) to streamline truck dispatch to manufacturer-certified repair shops with the necessary parts inventory, ensuring a swift return to the road; [Newsletter1](#), [Newsletter2](#)
- **Tech stack:** .NET Core, C#, Angular, REST services, Microsoft Azure, Git, GitHub, GitHub Actions, Service-Oriented architecture

IT Technical Intern — [Werner Enterprises](#) MAY 2020 - NOV 2020

- Utilized Spring and Spring Boot to develop robust **Java web and enterprise-level applications**
- Optimized transportation app processing efficiency by **75%** using **Akka** toolkit and cache refresh mechanism
- Gained expertise in **Java web development and problem-solving** through the identification and resolution of technical challenges
- **Tech stack:** Java, Spring Boot, SVN, Git, Jenkins, Azure DevOps

Software Development Consultant — [CMIT Attic, University of Nebraska at Omaha](#) MAR 2021 - JUNE 2021

- **Consulted** for design and development of a pose detector application on Android platform utilizing **ML Kit Pose Detection API**; **Enhanced frames per second (FPS) performance** (8 to 20) using the phone camera; **Optimized** the output response time using mobile GPU
- **Skills stack:** ML kit pose detection API, Java, Android, Mobile-GPU, Camera API, Airtable, Bitbucket

Graduate Research Assistant — [University of Nebraska at Omaha](#) AUG 2018 - MAY 2020

- Researched industry-oriented **agreement protocols** for distributed systems, enabling efficient operation under hybrid fault models
- **Designed and developed** a **simulator** to generate random synchronous or asynchronous wireless sensor networks that calculate key metrics such as average convergence rate per round, global convergence rate, and agreement reached, providing valuable insights into network performance
- Collaborated with a research team to develop applications leveraging my developed distributed agreement protocols
- **Skills stack:** Python, GitHub, Approximate agreement protocols, Random distribution, Distributed systems

Research Fellow — [GRACA, ORCA](#)

MAY 2019 - AUG 2019

- Secured a **\$5K grant** as PI for the research “Global Convergence in Asynchronous Distributed Systems”
- Researched and implemented **novel fault injection and voting filtering approaches** in sensor networks using Python
- Presented [poster](#) at the Student Research and Creative Activity Fair
- **Skills stack:** *Python, Fault Tolerance, Voting Algorithms*

Junior Programmer-Trainee — *Technosys Technologies Pvt. Ltd., India*

SEP 2016 - OCT 2017

- **Spearheaded and managed** a 5-member team in developing two impactful Android projects- **a)** A project task management system to streamline workflow and boost efficiency, and **b)** A digital platform for **Indian state education skill development** mission, promoting **public awareness** and accessibility of educational resources
- **Reduced** development time by utilizing my expertise in back-end APIs and database design (e.g., Microsoft SQL Server)
- **Skills stack:** *Project Management, Android SDK Platform Tools, Gradle, Android Google APIs, Android Support Libraries, Google Maps APIs, Google Material Design Libraries, Java, Databases – Microsoft SQL Server, SQLite*

SKILLS

- **Languages: (Proficient)-** Java, Python, C, C++, C#, SQL; **(Familiar)-** JavaScript, Bash, XML, HTML, Latex, MATLAB, Dart
- **Databases Management: (Relational)-** IBM DB2, Microsoft SQL Server, MySQL, SQLite; **(NoSQL)-** MongoDB, Firebase Realtime Database, Cloud Firestore, Redis, Cassandra; **(Big Data)-** Apache Hadoop HDFS, Cloudera Distribution for Hadoop (CDH); **(Cloud-based)-** Airtable, Microsoft Azure Cosmos DB, Azure Cloud SQL, Google Cloud SQL
- **Operating Systems:** Windows, Linux, Android (4.0 to present)
- **Cloud Platforms:** Microsoft Azure, Google Cloud, Amazon AWS
- **DevOps: (CI/CD)-** GitHub Actions, Jenkins, GitLab; **(Infrastructure as Code)-** Azure Resource Manager, Pulumi; **Microservices architecture (Serverless architecture)-** Azure Functions; **Containerization-** Kubernetes
- **Frameworks: (Front-end)-** Angular, React.js; **(Back-end)-** ASP.NET Core, ASP.NET Web API, Spring Boot; **(Mobile)-** Android, Flutter, Ionic; **(Identity and Access Management)-** Okta, Ping Identity

PUBLICATIONS/PRESENTATIONS

- **Mishra, A.**, Azadmanesh, A., & Najjar, L. (2022). *Consensus in Sensor Networks in Presence of Hybrid Faults*, Peer-to-Peer Networking and Applications 15(3), doi: 10.1007/s12083-022-01314-7
- **Mishra, A.**, Azadmanesh, A. (2021). *Global Convergence in Large Sensor Networks under Hybrid Faults*, 9th International Conference on Communications and Broadband Networking, doi:10.1145/3456415.3456448
- **Mishra, A.** (2020). *Global Convergence in Large Sensor Networks under Hybrid Faults*, Master’s Thesis, University of Nebraska-Omaha, [Link](#)
- **Mishra, A.**, Azadmanesh, A. (2021). *Performance Analysis of Voting Algorithms in Wireless Sensor Networks (WSNs)*, [Presentation](#) at CS Graduate Workshop, University of Nebraska-Omaha

LEADERSHIP AND VOLUNTEER ACTIVITIES

- **Crafting a curriculum for [Code Black Tech Community](#)**, aimed at guiding beginners or those lacking technical background to initiate their journey in tech, April 2024 - Present
- **Leading a team of 8 open-source volunteers** to develop the [Coding Allies website](#), an initiative focused on **empowering women in tech** to prepare for and excel in job interviews, March 2024 - Present
- **Open-Source Engineer Volunteer** for the Core Team at [Coding Allies](#), March 2021 - December 2021
- **Teaching assistant** for session “Intro to AI” in [CodeCrush](#) workshop empowering 8th and 9th-grade girls from Omaha public schools; Contributed to [CodeCrush](#) mission of fostering **stem literacy** through instruction in programs, Spring 2021
- Contributed as a **java developer** to [iDAAS healthcare application](#) at [Open Source Day\(OSD\)](#), [Grace Hopper conference 2020](#)
- **Member:** University of Nebraska at Omaha-Association for Computing Machinery-Women (ACM-W)

AWARDS

- **Grace Hopper Celebration (GHC) 2020 student representative** scholarship recipient of University of Nebraska at Omaha
- **Graduate research assistantship** at the University of Nebraska at Omaha from Fall 2018 to Fall 2020, including full tuition waiver and monthly research stipend

CERTIFICATIONS

- Microsoft Certified: [Azure Developer Associate](#), May 2023
- MuleSoft Certified Developer – Level 1 (Mule 4), April 2021
- Microsoft Certified for [Azure Fundamentals](#), January 2021