

Dhayaneswar Balusamy

☎ +1(716)-473-2929 | ✉ dhayanes@buffalo.edu | 💻 www.linkedin.com/in/dhayaneswar/ | 🐙 [Github](#) | 📍 New York, USA
(Open to Relocation)

EDUCATION

University at Buffalo, The State University of New York

Master of Science in Computer Science. GPA - 3.70/4.0

August 2022 – May 2024

Buffalo, New York

Anna University

Bachelor of Engineering in Computer Science. GPA - 8.22/10.0

August 2016 – May 2020

Tamil Nadu, India

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, TypeScript, HTML5, CSS3, C, C++

Frameworks: Spring Frameworks, Hibernate, Angular, React, jQuery, NodeJS, GraphQL, XML, REST and SOAP APIs

Databases: MySQL, Oracle DB, MS Access, PostgreSQL, MongoDB

Software and Tools: AWS, GCP, Kubernetes, Docker, Kafka, Hadoop, PySpark, Git, JIRA, Jest, JMeter, CI/CD

Soft Skills: Effective communication, Analytical skills, Problem solving, Quickly adaptable, Team-oriented, Leadership

EXPERIENCE

Research Assistant

SUNY Research Foundation

May 2023 – Present

Buffalo, New York

- Collaborated with Meta Inc to develop novel checkpoint system for fault tolerance and seamless recovery from system crashes.
- Revamped checkpointing pipeline for enhanced scalability and efficiency, achieving performance parity to baseline models.
- Implemented distributed architecture in AWS EC2 instances to scale for production deployment and handle terabytes of data.
- Leveraged message queuing with Kafka to optimize extraction of weights during backpropagation, reducing save time by 42%.

Software Engineer - Full Stack

Newgen Software Technologies

September 2020 – August 2022

Chennai, India

- Developed and deployed end-to-end ECM applications for web and mobile platforms by following Agile (SDLC) principles.
- Implemented microservices with Spring Boot that ensured seamless expansions and integrations in enterprise applications.
- Developed robust Java backend solutions to streamline database transactions and simplify third-party business integrations.
- Revamped UI with ReactJS for dynamic, and data-intensive features achieving 35% improvement in user interaction metrics.
- Optimized Maven, JUnit, and Jenkins integration, streamlining CI/CD workflows to cut production release cycles by 40%.
- Collaborated with clients, securing 95% POC approval rate through effective requirement analysis for project development.
- Performed code reviews, mentored junior developers, fostered knowledge-sharing, and promoted best practices in team.

Software Engineer Intern

Newgen Software Technologies

August 2020 – September 2020

Chennai, India

- Optimized SQL queries, functions and procedures, resulting in a 40% improvement in overall database querying performance.
- Assisted in refactoring deployment process using Docker, contributing to streamlined operations and enhanced reliability.
- Performed unit and integration testing to ensure maximum code coverage for improved team efficiency and reliability.

PROJECTS

DataFlow: Maximizing Data-Intensive Computing and Modelling

January 2023 – May 2023

- Developed full-stack web solution for diabetes data processing using advanced ML models, boosting decision accuracy by 30%.
- Integrated flexible data ingestion mechanism that allowed application to accept and process diverse diabetes datasets.
- Engineered automated pipeline for data cleaning, EDA, and dynamic visualizations for streamlined insight generation.

iFixer: Enhancing Text Recognition using Deep-Learning

August 2022 – December 2022

- Enhanced Text Recognition by integrating deep learning-based Motion de-blurring, resulting in 15% increase in accuracy.
- Boosted image clarity by using Super Resolution techniques that elevated reliability in challenging environmental conditions.

Text chat Application: Full-Stack messaging Application

August 2021 – December 2021

- Developed real-time messaging application with user authentication using JWT for secure user sessions and data protection.
- Leveraged Google Material UI for responsive and intuitive user interface, and employed MongoDB for efficient data storage.
- Integrated real-time group chat functionalities utilizing WebSockets and Node.js for instantaneous message exchanges.