Anirudh Srinath Belwadi

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EDUCATION

Carnegie Mellon University, Heinz College, Pittsburgh, PA   August 2024 – December 2025
Master of Information Systems Management (GPA: 3.46)
- **Courses:** Advanced Relational Database Management, Cloud Computing, Distributed Systems, Object Oriented Programming in JAVA, NoSQL Database Management, Object Oriented Analysis and Design, IT Project Management, Launching New Products, Agile Methods, Lean Innovation
- Assisted Dr. Ding Zhao's research in Safe AI Lab. Improved lab website design and performance & developed ReactJS UI for energy chatbot interaction and dataset visualization using kepler.gl

Mumbai University, Mumbai, India   June 2018 – June 2022
Bachelor of Engineering in Computer Engineering (GPA: 8.8/10; WES evaluation: 3.73)
- Campus Lead & Administrator of Google Developers Student Clubs where I built a strong tech community of 400+ enthusiastic developers
- Tech Head at Indian Society for Technical Education (ISTE), Tech Coordinator at Institution of Electronics and Telecommunication Engineers (IETE)
- **Key Achievements:** "Most Enterprising Student" Award in the First Year, 2018-2019; "Student of the Year" Award in the Final Year 2021-2022

SKILLS

- **Languages, Frameworks & Libraries:** Java (Spring Boot), Python (Flask), JavaScript (ReactJS, Next.js), jQuery, HTML, CSS (Bootstrap)
- **Databases:** MySQL, SQLite3, Oracle SQL, PostgreSQL
- **Cloud & Deployment Tools:** AWS (Cloud Formation, Lambda, SQS, SNS, RDS, Amplify, S3, EC2), Microsoft Azure DevOps (Boards, Repos, Pipelines), GCP (IAM, Cloud Storage Buckets, OAuth, Virtual Machines), Red Hat OpenShift, Kubernetes
- **Other Tools:** Zookeeper, Redis, Git, GitHub, GitFarm, JUnit, VS Code, IntelliJ IDEA, Postman

PROFESSIONAL EXPERIENCE

Manufacturing Futures Institute, Pittsburgh, United States of America   Sep 2025 – Present
Manufacturing Digitalization Intern
- Architected a polyglot persistence system with a unified Retrieval API orchestrating multiple data stores (PostgreSQL, AVEVA PI, file storage, Key-Value), enabling independent schema evolution and optimized storage per use case.
- Built database connectors and RESTful endpoints for metadata, historian, and file storage, supporting time-series queries and trial lifecycle tracking for manufacturing data pipelines.

Amazon.com Inc., Bellevue, United States of America   May 2025 – August 2025
Software Development Engineer Intern
- Architectured and designed a high-performance pre-computation layer for Amazon Warehousing & Distribution's Inventory Management System that reduced API latency by 90% (~2100ms to 200ms) by implementing event-driven data aggregation using AWS Lambda, SNS & SQS
- Developed scalable data processing pipeline to handle 200k+ requests/hour by implementing partitioned FIFO queues with parallel processing
- Developed migration approach from existing system of MySQL to PostgreSQL and also documented tech specifications and integration patterns

Reliance Jio Platforms Limited, Mumbai, India   July 2022 – April 2024
Software Development Engineer
- Contributed to MyJio application, the flagship product of Jio, while working on multiple JAVA Spring Boot micro services and ReactJS & Next.js UIs to facilitate mobile recharges and bill payments; Managed deployments over Red Hat OpenShift Kubernetes clusters
- Prepared API contracts for client application developers to facilitate proper communication with microservices
- **Key Achievement:** "Spotlight Award" – For going above and beyond normal duties and exhibiting a high level of team collaboration

PROJECTS

Pittsburgh2Peers   July 2024
Student Resources Application (pittsburgh2peers.vercel.app)
- Developed an application using ReactJS and Flask to sort out a lot of the logistics of getting settled in while moving as students to Pittsburgh
- Rapidly onboarded 300+ users to the app solving requests for airport cab-sharing & U-Haul-sharing challenges in just one week

Gulf Services & Industrial Supplies LLC, Muscat, Oman   June 2022 – July 2022
Inventory Management System (gsistesting.pythonanywhere.com)
- Developed a system to provide functionalities to different types of users and handle transactions of 25,000+ line items in 18 inventory locations
- **Key Achievement:** This project helped save close to 300 man hours in a year, required to audit all transactions done in the inventories

Harvard Office for Sustainability, Cambridge, MA   April 2022 – May 2022
Assembly Performance Analyzer Tool (assemblyperformance.pythonanywhere.com)
- Analyzed industrial data to predict construction assembly impact on operational & embodied carbon, varying cross-sectional materials and thicknesses
- Developed a web application that integrated a database and an ML model for Assembly Performance Analyzation

AWARDS AND ACHIEVEMENTS

AEC Hackathon @ BLOXHUB, Copenhagen (learncarbon.github.io) (bit.ly/LearnCarbonResearchPaper)   October 2021
- Developed a Rhino Plugin that would predict the Global Warming Potential from abstract designs of buildings using Machine Learning models
- Won the title of "Best project to solve a big AEC problem" out of the top 13 teams
- Technical Paper got selected for Education and Research in Computer Aided Architectural Design in Europe (eCAADe) 2022 conference, Belgium