

Anirudh Srinath Belwadi

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EDUCATION

Carnegie Mellon University

Master of Information Systems Management

August 2024 – December 2025

Pittsburgh, United States of America

- **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

Bachelor of Engineering in Computer Engineering

June 2018 – June 2022

Mumbai, India

- 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

- **Programming Languages:** Java, Python, JavaScript
- **Frameworks:** Spring Boot, Flask, React, Next.js
- **Databases:** MySQL, PostgreSQL, Oracle SQL, SQLite, Redis
- **Cloud & DevOps:** AWS (Lambda, SQS, SNS, RDS, EC2, S3, CloudFormation), GCP (IAM, Compute Engine, Cloud Storage, OAuth), Azure (Boards, Repos, Pipelines), Red Hat OpenShift, Kubernetes
- **Tools & Testing:** Git, GitHub, GitFarm, JUnit, Postman, IntelliJ IDEA, VS Code

EXPERIENCE

Manufacturing Futures Institute

Manufacturing Digitalization Intern

Sep 2025 – Dec 2025

Pittsburgh, United States of America

- Architected a polyglot persistence system using a unified Retrieval API across PostgreSQL, AVEVA PI, key-value stores, and file storage, enabling independent schema evolution and optimized data access across manufacturing workloads.
- Built database connectors and REST APIs using Flask to support metadata, historian, and file storage access, which enabled time-series queries and full trial lifecycle tracking for manufacturing data pipelines.

Amazon.com Inc.

Software Development Engineer Intern

May 2025 – August 2025

Bellevue, United States of America

- Architected a high-performance pre-computation layer using AWS Lambda, SNS, and SQS, reducing Inventory Management API latency by 90% (2.1s → 0.2s).
- Developed a scalable event-driven data processing pipeline using partitioned FIFO SQS queues, enabling parallel processing of 200k+ requests per hour.
- Designed and documented a zero-downtime migration strategy from MySQL to PostgreSQL, defining data models, cutover plans, and integration patterns.

Reliance Jio Platforms Limited

Software Development Engineer

July 2022 – April 2024

Mumbai, India

- Developed and deployed Java Spring Boot microservices and React/Next.js user interfaces for the MyJio app using Kubernetes on Red Hat OpenShift, improving deployment reliability and release consistency.
- Created OpenAPI/Swagger contracts for microservices, reducing client-server integration issues and accelerating frontend development.
- **Key Achievement:** "Spotlight Award" – For going above and beyond normal duties and exhibiting a high level of team collaboration

Team FullStack

Founder & CTO (teamfullstack.in)

March 2020 – July 2022

Mumbai, India

- Founded and led an initiative of training 200+ students in web development, UI/UX, and digital marketing while delivering real-world client projects.
- Supported the National Skill Development Corporation of India (NSDC) in managing CSR projects for global companies like LTI and TCS
- Mentored 16 interns through hands-on full-stack development projects, improving technical proficiency and industry readiness.
- **Key Achievement:** Awarded 1st place in Global Student Entrepreneur Awards. Qualified and participated at their National finals in Vizag, India

Cardinal LCA

Front End Development Intern (cardinal-lca.github.io/website)

July 2021 – May 2022

Delhi, India

- Revamped the website's design, functionality, and accessibility, leading to a 10x increase in monthly visitor traffic; Hosted on AWS Amplify for CI/CD
- Developed REST APIs in Flask to integrate a Rhino Plugin with an SQLite database with data parameters for LCA calculations, improving workflow efficiency.

PROJECTS

Pittsburgh2Peers

Student Resources Application (pittsburgh2peers.vercel.app)

July 2024

- Developed a student resource platform using ReactJS and Flask to streamline relocation logistics, enabling airport cab-sharing and U-Haul coordination.
- Onboarded 300+ users within one week by launching targeted student workflows, validating product-market fit for campus mobility challenges.

Gulf Services & Industrial Supplies LLC

Inventory Management System (gsistesting.pythonanywhere.com)

June 2022 – July 2022

Muscat, Oman

- Developed an inventory management system using Python and SQL to track 25,000+ line items across 18 locations, automating transaction audits.
- Reduced annual inventory audit effort by ~300 hours by automating transaction tracking and reconciliation.

Harvard Office for Sustainability

Assembly Performance Analyzer Tool (assemblyperformance.pythonanywhere.com)

April 2022 – May 2022

Cambridge, United States of America

- Built a web application integrating an ML model and relational database to analyze industrial assembly designs and predict carbon impact.

AWARDS AND ACHIEVEMENTS

AEC Hackathon @ BLOXHUB, Copenhagen

LearnCarbon (learncarbon.github.io) (bit.ly/LearnCarbonResearchPaper)

October 2021

Copenhagen, Denmark

- 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

Covid-19 National Bioinformatics Online Hackathon for Full Stackers (github.com/covidtracker192/KASH)

April 2020 – May 2020

- Finished in top 10 teams where I led a team of 3 full stack developers to develop an Android app to assist the then-ongoing pandemic situation
- Developed features like COVID alerts, access to nearby testing centers and emergency contacts, and a healthcare worker UI for providing test results