Anirudh Srinath Belwadi

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EDUCATION

Carnegie Mellon University **Pittsburgh, United States of America**
Master of Information Systems Management (GPA: 3.60) *August 2024 – December 2025*
- **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 (safeai-lab.github.io) and performance by 95% and also developed ReactJS UI for energy chatbot interaction and dataset visualization using kepler.gl
- Recognized for academic excellence through placement on the Dean's List upon graduation

Mumbai University **Mumbai, India**
Bachelor of Engineering in Computer Engineering (GPA: 3.73) *June 2018 – June 2022*
- Built a technical community of 400+ engineers, while being the Campus Lead for Google Developers Student Clubs
- Tech Head at Indian Society for Technical Education (ISTE), Tech Coordinator at Institution of Electronics and Telecommunication Engineers (IETE)
- Awarded "Most Enterprising Student" Award in the First Year, 2018 - 2019
- Awarded "Student of the Year" Award in the Final Year, 2021 - 2022

SKILLS

- **Programming Languages:** Java, Python, TypeScript
- **Frameworks:** Spring Boot, Flask, ReactJS, Next.js
- **Databases:** MySQL, PostgreSQL, Oracle SQL, SQLite, Redis
- **Cloud/DevOps:** AWS (Lambda, SQS, SNS, RDS, EC2, S3, CloudFormation), GCP (Compute Engine, Cloud Storage), Azure DevOps, OpenShift, Kubernetes
- **Tools & Testing:** Git, GitHub, GitFarm, JUnit, Postman, IntelliJ IDEA, VS Code, ClickUp, Notion

EXPERIENCE

Manufacturing Futures Institute **Pittsburgh, United States of America**
Manufacturing Digitalization Intern *September 2025 – December 2025*
- 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. **Bellevue, United States of America**
Software Development Engineer Intern *May 2025 – August 2025*
- 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 **Mumbai, India**
Software Development Engineer *July 2022 – April 2024*
- Developed and deployed Java Spring Boot microservices and ReactJS/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.
- Awarded "Spotlight Award" for going above and beyond normal duties and exhibiting a high level of team collaboration

Team FullStack **Mumbai, India**
Founder & CTO (teamfullstack.in) *March 2020 – July 2022*
- Founded and led an initiative of training 200+ students in web development, UI/UX, and digital marketing while delivering real-world client projects for small and medium scale companies like Latyton (latytonhomecare.com) and Asmita Special School (shivshankarsanstha.org)
- 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
- Awarded 1st place in Global Student Entrepreneur Awards. Qualified and participated at their National finals in Vizag, India

Cardinal LCA **Mumbai, India**
Front End Development Intern (cardinal-lca.github.io/website) *July 2021 – May 2022*
- 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 **Muscat, Oman**
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 **Muscat, Oman**
Inventory Management System (gsistesting.pythonanywhere.com) *June 2022 – July 2022*
- 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 **Mumbai, India**
Assembly Performance Analyzer Tool (assemblyperformance.pythonanywhere.com) *April 2022 – May 2022*
- 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 **Copenhagen, Denmark**
LearnCarbon (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
- Authored a technical research paper and presented at eCAADe 2022 conference, Belgium

Covid-19 National Bioinformatics Online Hackathon for Full Stackers **Mumbai, India**
KASH: COVID Awareness & Safety Hub Application (github.com/covidtracker192/KASH) *April 2020 – May 2020*
- Led a team of three full-stack developers to build an Android app supporting users during the COVID-19 pandemic, earning a top-10 team ranking
- Developed features like COVID alerts, access to nearby testing centers and emergency contacts, and a healthcare worker UI for providing test results