

# Anirudh Srinath Belwadi

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## EDUCATION

### Carnegie Mellon University

Master of Information Systems Management (GPA: 3.60)

Pittsburgh, United States of America

August 2024 – December 2025

- **Courses:** Cloud Computing, Distributed Systems, Advanced Relational Database Management, Object Oriented Analysis and Design, NoSQL Database Management, 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](https://github.com/safeai-lab)) 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

Bachelor of Engineering in Computer Engineering (GPA: 3.73)

Mumbai, India

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

Software Development Engineer Intern

Pittsburgh, United States of America

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.

Software Development Engineer Intern

Bellevue, United States of America

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

Assistant Manager - Software Development Engineer

Mumbai, India

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

Founder & CTO ([teamfullstack.in](https://teamfullstack.in))

Mumbai, India

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](https://latytonhomecare.com)) and Asmita Special School ([shivshankarsanstha.org](https://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

Front End Development Intern ([cardinal-lca.github.io/website](https://cardinal-lca.github.io/website))

Mumbai, India

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

Student Resources Application ([pittsburgh2peers.vercel.app](https://pittsburgh2peers.vercel.app))

Muscat, Oman

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](https://gsistesting.pythonanywhere.com))

Muscat, Oman

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

Assembly Performance Analyzer Tool ([assemblyperformance.pythonanywhere.com](https://assemblyperformance.pythonanywhere.com))

Mumbai, India

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

LearnCarbon ([learncarbon.github.io](https://learncarbon.github.io)) ([bit.ly/LearnCarbonResearchPaper](https://bit.ly/LearnCarbonResearchPaper))

Copenhagen, Denmark

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

KASH: COVID Awareness & Safety Hub Application ([github.com/covidtracker192/KASH](https://github.com/covidtracker192/KASH))

Mumbai, India

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