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:** Cloud Computing, Distributed Systems, Advanced Relational Database Management, Object Oriented Analysis & Design, Web Application Development, Database Management, Object Oriented Programming in JAVA, NoSQL Database Management, IT Project Management, 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 and hosted 10+ tech-based skill builder events
- Worked as the Tech Head at Indian Society for Technical Education (ISTE) and as a 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, C
- **Backend & Systems:** Spring Boot, Flask, Django, Distributed systems, microservices, REST APIs, event-driven systems, serverless systems
- **Cloud & Infra:** AWS (Lambda, SQS, SNS, RDS, EC2, CloudFormation, CloudWatch, S3), GCP (Compute Engine, Cloud Storage), Docker, Kubernetes
- **Databases:** MySQL, PostgreSQL, Oracle SQL, SQLite, Redis, MongoDB, DynamoDB
- **Operating Systems and Tools:** Linux, Windows, Git, GitHub, CI/CD, GitFarm, JUnit, Postman, IntelliJ IDEA, Visual Studio Code

Experience

Manufacturing Futures Institute — **Pittsburgh, United States of America**
Software Development Engineer Intern — *September 2025 – December 2025*
- Designed and implemented a polyglot persistence architecture with a unified Retrieval API spanning PostgreSQL, AVEVA PI (time-series), key-value stores and object/file storage, enabling independent schema evolution and optimized access across heterogeneous manufacturing workloads
- Built scalable RESTful APIs and database connectors in Flask to expose metadata, historian and file-system data, supporting time-series analytics and lifecycle tracking
- Defined data models, API contracts and indexing strategies to improve query performance, consistency and reliability across storage backends
- Collaborated with researchers and engineers to productionize data pipelines for large-scale manufacturing experiments

Amazon.com Inc. — **Bellevue, United States of America**
Software Development Engineer Intern — *May 2025 – August 2025*
- Designed and built a serverless, event-driven distributed system using AWS Lambda, SQS & SNS to decouple compute-intensive workloads from latency-sensitive APIs
- Reduced p99 API latency by ~90% by introducing an asynchronous precomputation pipeline to reliably handle 200K+ requests/hour under peak production traffic
- Implemented fault-tolerant processing guarantees using retries, dead-letter queues and idempotency controls to handle message duplication and partial failures
- Drove design reviews and production-readiness discussions, contributing to decisions around scalability limits, failure modes, observability and operational excellence

Reliance Jio Platforms Limited — **Mumbai, India**
Assistant Manager - Software Development Engineer — *July 2022 – April 2024*
- Designed and developed Java Spring Boot microservices powering a large-scale consumer platform, MyJio, with 500M+ users
- Built horizontally scalable backend services for authentication, user data management and service orchestration, with a focus on low latency and high availability
- Improved system reliability and debuggability by implementing structured logging, service health checks and production monitoring to detect and diagnose failures
- Collaborated with product, frontend and platform teams to define stable API contracts, support staged rollouts and ensure safe production deployments
- Investigated and resolved performance bottlenecks and availability issues in distributed services by analyzing logs, metrics and system behavior under load

Team FullStack — **Mumbai, India**
Founder & CTO (teamfullstack.in) — *March 2020 – July 2022*
- Founded and led an initiative of training 200+ students in web development and UI/UX while delivering real-world client projects for small and medium scale companies
- Supported the National Skill Development Corporation of India *(nsdcindia.org)* and Advanced Professional Learning and Leadership *(APLL.info)* in managing CSR projects for global companies like Larsen & Toubro Infotech Mindtree *(ltimindtree.com)* and Tata Consultancy Services *(tcs.com)*
- Mentored 16 interns through hands-on full-stack development projects, improving their 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**
Software Development Engineer 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

HaleAI — **Mumbai, India**
Full Stack Development Intern — *March 2020 – June 2021*
- Built and deployed Flask-based backend services to integrate ML based medical diagnostic apps (COVID-19, brain tumor, TB, diabetic retinopathy) with exposable REST APIs
- Implemented AWS S3 cloud storage to support scalable file ingestion and reduced server-side resource usage and EC2 compute for application hosting, improving reliability

Projects

Pittsburgh2Peers — **Muscat, Oman**
Student Resources Application (pittsburgh2peers.vercel.app) — *July 2024*
- Built and deployed a full-stack platform (React, Flask) to streamline campus relocation logistics, enabling cab-sharing and moving coordination through scalable backend APIs
- Onboarded 300+ users within one week and sustained stable performance under rapid traffic growth through efficient request handling and backend orchestration

Gulf Services & Industrial Supplies LLC — **Muscat, Oman**
Inventory Management System (gsistesting.pythonanywhere.com) — *June 2022 – July 2022*
- Designed and implemented a Python + SQL based inventory system to track 25K+ SKUs across 18 locations, automating transactional consistency and audits
- Reduced annual audit effort by ~300 hours through automated reconciliation and data validation pipelines

Harvard Office for Sustainability — **Mumbai, India**
Assembly Performance Analyzer Tool (assemblyperformance.pythonanywhere.com) — *April 2022 – May 2022*
- Developed a data-driven web application integrating an ML inference pipeline and relational database to analyze assembly designs and estimate carbon impact
- Optimized data ingestion and query flows to support repeatable, low-latency analytical workflows

Awards And Achievements

AEC Hackathon @ BLOXHUB, Copenhagen — **Copenhagen, Denmark**
LearnCarbon (learncarbon.github.io) (bit.ly/LearnCarbonResearchPaper) — *October 2021*
- Built a Rhino plugin using machine learning to predict Global Warming Potential (GWP) from abstract building designs at early design stages
- Won "Best Project to Solve a Major AEC Problem" among 13 finalist teams and authored a technical paper to present the work at the eCAADe 2022 conference (Belgium)