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: 3.44)
- **Courses:** Advanced Relational Database Management, Cloud Computing, Distributed Systems, Object Oriented Programming in JAVA, NoSQL Database Management, Object Oriented Analysis and Design
- 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)
- Tech Head at Indian Society for Technical Education (ISTE), Tech Coordinator at Institution of Electronics and Telecommunication Engineers (IETE)
- Campus Lead & Administrator of Google Developers Student Clubs where I built a strong tech community of 400+ enthusiastic developers
- **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

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
Full Stack Developer
- 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

Cardinal LCA, Delhi, India July 2021 – May 2022
Front End Development Intern (cardinal-lca.github.io/website)
- 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 APIs for integrating a Rhino Plugin and a database for pulling data parameters required for LCA calculations

HaleAI, Mumbai, India March 2020 – June 2021
Full Stack Development Intern
- Developed web applications on Flask for the detection of COVID-19, Brain Tumor, Tuberculosis, Diabetic Retinopathy, and Fatal Brain Diseases
- Used AWS S3 storage to store uploaded files for lighter application weight & AWS EC2 to deploy the web applications

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