

Anuranan Bharadwaj

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EDUCATION

Embry-Riddle Aeronautical University

Bachelor of Science in Aerospace – Jet Propulsion

Minor in Computer Science

GPA: 3.9

Daytona Beach, FL

May 2026

EXPERIENCE

Software Engineer Intern | Java, Git, SQL, Database Management, Agile

July – August 2024

ABH Software

Assam, India

- Ideated the development of a **Local Business Management Platform** for inventory control, customer management, and sales tracking, delivering scalable software solutions.
- Optimized SQL queries and report generation, **enhancing data accuracy by 20%** and **reducing report processing time by 30%** through automation.
- Collaborated cross-functionally to implement **Java-based features** that streamlined work processes using **Agile methodologies**.

Teaching Assistant – EGR 115 (Introduction to Computing for Engineers) | MATLAB

January 2024 – Present

Embry-Riddle Aeronautical University

Daytona Beach, FL

- Guided students in **MATLAB programming**, data processing, and algorithmic problem-solving, improving their technical proficiency.
- Developed structured feedback systems to enhance students' coding practices and computational thinking.
- Led team-based problem-solving sessions, **fostering collaboration** and **analytical reasoning** among students.

PROJECTS

ClassConnect (In Progress) | MERN, HTML, CSS, JS

January 2025

- Designed a **scalable web-based platform** for real-time **attendance tracking** using QR code authentication.
- Engineered a **MERN-based backend** for session validation and interactive user interfaces.
- Partnered with a professor to **address classroom management challenges**, positioning the project as a potential **EdTech startup**.

Code Analysis Tool (CAT) | C#, .NET, WPF, Agile | UI Lead 4-member Team

November 2024

- Developed an **automated code analysis tool** for Java projects, extracting key software metrics (LOC, ELOC, class counts, inheritance structures).
- Built a **user-friendly GUI** with **WPF** to visualize code insights, reducing **manual review time by 25%**.
- Ensured **90% accuracy** in analyzing over **10+ Java projects**, enhancing **code quality assessment** workflows.

Pharmaceutical Inventory | Java, Object-Oriented Programming, Agile

June 2024

- Developed a **Java-based inventory management system**, leveraging **OOP** principles (encapsulation, inheritance, polymorphism).
- Automated financial tracking, increasing **processing speed by 25%** and reducing **manual input errors by 15%**.
- Optimized **real-time inventory tracking**, streamlining supply chain processes for pharmaceuticals.

SKILLS

Languages: Java | C# | HTML | CSS | JS | Python | MATLAB

Developer Tools: VS Code | Visual Studio | Git | PyCharm | Jupyter | Figma

Data Science: Pandas | Matplotlib | NumPy

Data Management: SQL | Excel

Frameworks & Technologies: MERN | .NET | WPF

Courses: Data Structures & Algorithms | Object-Oriented Programming | Software Engineering Practices | UI/UX