

# ANURAG BAMBARDEKAR

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## EDUCATION

**M.S. Electrical & Computer Engineering – Rutgers University, New Jersey** September 2022 – May 2024  
**Relevant Courses:** *Software Engineering, Computer Architecture, Machine Learning, Data Structures & Algorithms* **GPA:3.92/4**

**B.E. Electronics & Telecommunication Engineering – University of Mumbai, India** June 2016 – October 2020  
**Relevant Courses:** *Communication Networks & Systems, Wireless Networks, Microprocessors & Microcontrollers* **GPA:8.47/10**

## EXPERIENCE

**Teaching Assistant – Rutgers University, New Jersey** January 2023 – Current

- Exhibited Computer Architecture & Digital Logic Design expertise, and contributed to course refinement efforts.
- Proposed 3 new modules in weekly meetings, boosting student engagement by 20% and assessment effectiveness by 15%.

**Technical Advisor – WINLAB, New Jersey** May 23 – August 23

- Guided and mentored a diverse summer internship hosting 79 students who worked on a breadth of impactful projects.
- Led initiatives in cutting-edge areas such as 5G wireless, Artificial Intelligence, IoT and Robotics, yielding 10 impactful projects.

**Junior Technical Consultant – Encora Innovations Labs, India** October 2021 – May 2022

- Spearheaded the successful deployment of an IoT Perishable Goods Monitoring System at DHL, resulting in a 80% reduction in perishable goods spoilage rates through real-time monitoring and proactive management of environmental conditions.
- Implemented Kubernetes deployment strategies, reducing deployment time by 20% and resource usage by 50%, respectively, optimizing operational efficiency and enhancing system scalability at DHL's warehouse and logistics operations.

## PROJECTS

**Stocker SEWA (<https://bit.ly/49866Fm>)** January 2023 – May 2023

- Engineered a sophisticated S&P500 analysis web application using Django, featuring predictive tools like moving averages and sentiment analysis, empowering users with top stock insights and sector trends.
- Implemented Bayesian regression, k-means clustering leveraging beta values, and interactive visualization, enhancing user decision-making with comprehensive market insights and facilitating optimized investment strategies.

**Urgent Care Management System (<https://bit.ly/4bk2uST>)** September 2022 – December 2022

- Spearheaded the development of a healthcare solution optimizing appointment scheduling, resulting in a 25% reduction in patient wait times and improved scheduling accuracy.
- Designed a dynamic platform encompassing patient registration, automated billing, and real-time doctor availability search.
- Architected a MySQL-on-AWS backend with JavaScript, Node.js, and Express, integrating Twilio for immediate SMS alerts and implementing role-based access for enhanced security and usability.

**Real Time Analysis of Surveillance Camera** June 2019 – October 2020

- Implemented advanced security measures using OpenCV and TensorFlow, achieving 90% accuracy in object detection, including weapons and unattended bags, with Faster R-CNN.
- Published research on "Real-time Analysis of Video Surveillance using Machine Learning and Object Recognition" in IRJET, showcasing expertise in facial analysis, object detection, and motion tracking algorithms for enhanced security in real-time video surveillance feeds.

**IoT Medicine Vending System** February 2019 – March 2019

- Developed a PIN-authenticated, RFID-enabled medication dispensing system, integrating diverse hardware components for streamlined patient medication retrieval and improved accessibility to rural areas.
- Designed an intuitive interface for doctors to manage prescriptions, minimizing errors and enhancing record-keeping.
- Awarded Second Prize at the National Level IoT Challenge 2019 for demonstrating scalability potential and positive impact through seamless integration of hardware components and cutting-edge technologies in the medication dispensing system.

## SKILLS

**Coding Languages:** Python, Javascript, Typescript, Java, C++, C, Shell, CSS, HTML

**Databases:** MySQL, MongoDB, Amazon RDS

**Frameworks:** Django, React.js, Flask, Bootstrap, Spring Boot, Express.js

**Tools & Libraries:** VSCode, vim, git, Powershell, Postman, Node.js, Figma, ROS, Docker, Kubernetes, RabbitMQ, GNURadio, GraphQL, Arduino, WireShark, ROS, SimpleScalar, Amazon Web Services, Azure, LaTeX