



JAY BAROT

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EDUCATION

Vanderbilt University

Aug 2022 - May 2024

Master of Science, Computer Science GPA 3.95 / 4.

Nashville, USA

University of Mumbai, Xavier Institute of Engineering

Aug 2016 – Oct 2020

Bachelor of Engineering, Information Technology

Mumbai, IND

Coursework: Data Structures and Algorithms, Operating Systems, Machine Learning, Mobile & Web Programming, Unix / Linux, Software Engineering & Project Management.

SKILLS

Python, Java, JavaScript, HTML, CSS, Bootstrap, Angular, Node.JS, Flask, Django, Docker, Git, WordPress.

Familiar: C++, AWS, Chameleon Cloud, MongoDB, PostgreSQL, MySQL, Kubernetes, React, Spring.

PROFESSIONAL EXPERIENCE

Syrinx

Dec 2021 - Jun 2022

Software Developer

Tokyo, JP (Remote)

Empowering laryngeal cancer survivors with state-of-the-art voice-restoration technology.

- Developed and implemented advanced **algorithmic optimizations**, resulting in a significant reduction in signal noise by **70%**, enhancing data accuracy and quality.

Ximple Solutions

Jun 2019 - Apr 2021

Lead Programmer / Analyst

Maryland, USA (Hybrid)

Pioneering tailored Enterprise Resource Planning (ERP) software for thriving distribution businesses.

- Designed and owned the development of an extensive suite of over *40 Java JAX-RS* microservice RESTful APIs, showcasing a remarkable emphasis on **code reusability**, resulting in significant reductions in **maintenance costs**.
- Fabricated state-of-the-art web applications for the next generation of ERP and B2B Ecommerce platforms utilizing the powerful *TypeScript* framework, *Angular*.
- Elevated *UX/UI* and response speed, leading to **100%** improvement in **customer satisfaction**.
- Improved team performance** by providing training and mentorship to incoming talent.

MAJOR PROJECTS

Game of Papers

Transforming Scientific Paper Research with BERT-Powered Recommendations.

Reverse Proxyception



Ingestion Service for Cloud Native Applications.

FeedbackWizard

Empowering Students with an End Semester College Professor Feedback Mobile Android App.

PUBLICATIONS

International Journal for Research in Applied Science and Engineering Technology.

- Flask App for Real Time Sentiment Analysis of Tweets on NASDAQ and NSE Stocks. 
- Predicting NASDAQ and NSE Stocks using Machine Learning Algorithms. 

EXTRACURRICULAR ACHIEVEMENTS

Head Coordinator (Personal recommendation of the dean) | *Computer Society of Xaviers* (CSX).

Led 720+ students in diverse tech activities, including web development, computer integration, and more.

Undergraduate Class Representative • Leadership • Communication • Community-Building Abilities.