




# Jay Barot

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## EDUCATION

### Vanderbilt University

*M.S, Ph.D Computer Science GPA 3.94/4*

Nashville, USA

*Aug 2022 – Present*

### University of Mumbai

*B.E Information Technology*

Mumbai, IND

*Aug 2016 – Oct 2020*

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, HTML, CSS.

**Frameworks & Libraries::** PyTorch, TensorFlow, Angular, React, Node.js, Flask, Django, Bootstrap.

**Tools & Technologies:** Docker, Kubernetes, Git, WordPress, AWS, Chameleon Cloud.

**Databases:** MongoDB, PostgreSQL, MySQL.

## EXPERIENCE

### Software Developer

*Syrinx*

Tokyo, JPN (Remote)

*Dec 2021 – Jun 2022*

*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.

### Lead Programmer/Analyst

*Ximple Solution*

Maryland, USA (Hybrid)

*Jun 2019 – Apr 2021*

*Delivered enterprise-grade ERP and ecommerce software for distribution-focused 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.

## SELECTIVE PROJECTS

### Game of Papers

- Addressed the challenge of overwhelming research paper discovery by developing a BERT-powered recommendation system, improving research efficiency for users by providing context-aware, personalized suggestions.

### Personal Portfolio

- Developed a sleek Angular-based portfolio showcasing research, projects, and blogs with an interactive UI.

### Reverse Proxyception

- Created an ingestion service for cloud-native applications, implementing a reverse proxy mechanism to optimize request handling for scalable microservices architectures.

### Feedback Wizard

- Designed an Android app to improve student participation in course teaching feedback with a seamless interface.

## PUBLICATIONS

### International Journal for Research in Applied Science and Engineering Technology.

- ToneCheck: Unveiling the Impact of Dialects in Privacy Policy.
- Real Time Sentiment Analysis of Tweets on NASDAQ and NSE Stocks.
- Predicting NASDAQ and NSE Stocks using Machine Learning Algorithms.

## EXTRACURRICULAR ACHIEVEMENTS

**Head Coordinator** (Dean's recommendation) | *Computer Society of Xaviers (CSX)*

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

**Undergraduate Class Representative** | *Class Coordination, Community Building.*