Jay Barot

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EDUCATION

Vanderbilt University   Nashville, USA
M.S completed, Ph.D Computer Science GPA 3.925/4   *Aug 2022 – Present*

University of Mumbai   Mumbai, IND
B.E Information Technology   *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   Tokyo, JPN (Remote)
Syrinx   *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   Maryland, USA (Hybrid)
Ximple Solution   *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

- *ACM SACMAT* - ToneCheck: Unveiling the Impact of Dialects in Privacy Policy.
- *IJRASET* - Real Time Sentiment Analysis of Tweets on NASDAQ and NSE Stocks.
- *IJRASET* - 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.*