

JAY BAROT

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EDUCATION

Vanderbilt University | *MS, Computer Science* | Nashville, TN. Aug 2022 - May 2024
Cumulative GPA 3.95 / 4.

University of Mumbai | *BEEngg, Information Technology* | Mumbai, IN. Aug 2016 - May 2020

Coursework | Data Structures and Algorithms | Operating Systems | Machine Learning | Web Programming | Unix | Software Engineering & Project Management.

PROGRAMMING SKILLS

Python • Java • JavaScript • HTML • CSS • C++ • Angular • NodeJS • Bootstrap • Flask • Django • Docker • Git • WordPress.

Familiar : AWS • Chameleon Cloud • MongoDB • MySQL • Kubernetes • Spring

PROFESSIONAL EXPERIENCE

Syrinx | *Software Developer* | Tokyo, JP (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.

Ximple Solutions | *Lead Programmer / Analyst* | Maryland, USA (Hybrid). Jun 2019 - Apr 2021
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 | *Full Stack • Angular • Flask • PostgreSQL • Docker | Machine Learning • Sci-BERT*.
Transforming Scientific Paper Research with BERT-Powered Recommendations.

Reverse Proxyception | *Distributed Systems • Envoy • Kafka*.
Ingestion Service for Cloud Native Applications.

FeedbackWizard | *Android App Development*.
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.