JAY BAROT

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EDUCATION

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

University of Mumbai | *BEngg, 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.
Familiar : AWS ● Chameleon Cloud ● MongoDB ● MySQL.

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-R*S 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.