





# JAY BAROT

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## EDUCATION

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### 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

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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

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### 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

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### 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

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### 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

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**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.