

# Shruti Varade

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## EXPERIENCE

**Machine Psychology Fellow, Boston, MA** — Research Software Engineer  
May 2023 – Present

- Research at the intersection of Computer Vision, Graphics, and Machine Learning for the web.
- Present project findings and research at various hackathons and conferences, showcasing the application of ML in web-based modeling and paper presentations on novel machine psychology methodologies.

**TATA Consultancy Services, Mumbai, India** — Software Engineer  
Sept 2020 - Jun 2022

- Developed SBI bank's software with Java and JavaScript, improving user experience by 20% in a year per SDLC guidelines.
- Enhanced data efficiency and automation using RESTful APIs and SQL, with Git ensuring backend integration and code integrity.
- Led mentorship to elevate interns' full-stack dev skills, achieving 95% test coverage and reducing defects through unit testing.

## EDUCATION

**University of Massachusetts, Boston** — Master's in Computer Science  
Sept 2022 - May 2024 | GPA 3.88/4.0

- Courses: OODP- UML, Design Patterns, OOSD- Stream API, Concurrency, Analysis of Algorithms, User Interface Design, Comp. Graphics

**Teaching Assistant** for *Introduction to Computing (Python)*, *Programming in C*

**University of Mumbai, India** — Bachelor's in Computer Engineering  
Jun 2016 - May 2020 | GPA 8.32/10.0

- Courses: Machine Learning, Artificial Intelligence, Cloud Computing, Database Management System, Data Structures, Operating System

## PROJECTS

**Boostlet.js** | JavaScript

- Boostlet.js is a generic processing framework that runs algorithms wrapped as bookmarklets and supports a variety of web-based visualization frameworks.

**BoxCraft.js** | JavaScript

- BoxCraft.js is a JavaScript library designed to provide interactive bounding box tools for web-based applications.

**GuideGenie** | Python, ML, streamlit.py

- Machine learning project to recommend a professor to a student from a network of professors looking for a mentor or a guide.

**Fitness Metrics Dashboard** | Django, Chart.js, PostgreSQL

- Fitness Metrics Dashboard enabled users to track fitness metrics through data visualization dashboards for calories, distance, steps, and heart rate.

## LINKS

- 🔗 [linkedin.com/in/shruti-varade](https://linkedin.com/in/shruti-varade)
- 🔗 [github.com/shrutivarade](https://github.com/shrutivarade)

## SKILLS

### Frontend:

HTML, CSS, JavaScript (ES6+), UI/UX, React.js, Streamlit.py, Bootstrap, xtk.js, Three.js and WebGL.

### Backend:

Java (JUnit5, Apache Ant), Python (Django, Flask), Express.js Node.js, C/C++, RESTful API, JSON, and XML

### Databases:

MySQL, PostgreSQL, MongoDB, and AWS cloud storage solutions

### Development Tools:

Git, GitHub, PyCharm, IntelliJ, VSCode

## PRESENTATIONS

**BostonBridge Hackathon 2024** | University of Massachusetts, Boston

**Niivue Hackathon 2023** | University of South Carolina, Columbia

**BrainHack 2023** | MIT, Boston

## ACCEPTED PAPERS

Thuy Dao, Chris Rorden, Korbina Eckstein, Daniel Haehn, Shruti Varade, Steffen Bollmann

**Developing a secure, browser-based, and interactive image segmentation system for medical images**

ISMRM - Australia and New Zealand Chapter - 2023