

# Vruttant Balde

## Software Developer

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### EXPERIENCE

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#### Software Development Engineer - L4

02/2023 – present

ZScaler

Bangalore, India

- Developed **automated sanity check packages** for **cloud upgrade validation** and **staggered deployments**, minimizing service disruption during progressive rollouts.
- Opened **470+ high-impact bugs**, proactively identifying critical vulnerabilities and misconfigurations that could affect **cloud infrastructure uptime**.
- Automated **1,250+ test cases** using **Python, Pytest**, and **Docker-based test environments** on **Linux**, improving test coverage, execution time, and regression stability.
- Contributed to the development of a proprietary **network communication protocol** in **C** on **FreeBSD**, strengthening internal cloud networking reliability.
- Collaborated with DevOps and CloudOps teams to ensure deployment pipelines followed **zero-trust security principles** and **cloud-native CI/CD best practices**.
- Leveraged deep understanding of **TCP/IP, DNS, VPNs, proxy protocols, and firewall behavior** to design relevant and realistic test scenarios.
- Gained exposure to modern **cybersecurity patterns, threat prevention techniques**, and **Zscaler's Zero Trust Exchange platform** through cross-functional collaboration.
- Used tools like **JIRA, Jenkins, Git**, and **internal test infrastructure** to track QA metrics, manage bugs, and streamline continuous integration workflows.

#### Full-Stack Developer Intern

10/2021 – 01/2023

BosonQ PSI

Remote

- **Implemented secure user authentication** using **JWT tokens** in **Django**, enabling stateless session management and scalable login systems.
- **Dockerized the Django backend**, streamlining local development and simplifying deployment across environments.
- Developed a responsive **Simulation Workspace UI** using **React.js** and **Tailwind CSS**, improving user interaction and performance.
- Created complex, dynamic **input forms** using **Formik** and integrated **Yup-based client-side validation**, ensuring smooth user experience and data integrity.
- Integrated **Redux** for global state management across components, enhancing maintainability and predictability of UI behavior.
- Followed **component-based architecture** and best practices for **frontend performance optimization** and **clean state flow**.

#### Web Development Intern

02/2021 – 05/2021

TheKabadiwala

Bhopal, India

- Developed multiple modules of the **Admin Portal** using **ASP.NET Core Razor Pages**, enabling internal teams to manage **revenue, users, and resource allocation**.
- Led the successful **migration from Bootstrap 3.0 to 5.0**, updating UI components and ensuring full backward compatibility and responsive design.
- Built a **data visualization dashboard** using **Blazor WebAssembly**, providing stakeholders with actionable insights into company performance over time.
- Translated **wireframes into pixel-perfect pages** for the **Telecaller Portal**, using **HTML, CSS**, and modern **Bootstrap** to ensure design consistency and cross-browser compatibility.
- Maintained comprehensive **technical documentation** throughout the development cycle to support scalability, onboarding, and team handover.

## EDUCATION

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### Bachelor of Technology in Information Technology

Technocrats Institute of Technology [🔗](#)

- CGPA - 8.98

08/2019 - 05/2023

Bhopal, India

## PROJECTS

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### PyBasic

Programming Language made in Python

- Created a CLI-based Lexer, Parser, Interpreter which supports basic syntax, conditions, expression, statements using python.

### Spotify Group Sessions [🔗](#)

Music controller for group sessions.

- Made a room based web app where one host takes control of the music being played on a single device and other guests can join the room, vote to skip the song or play/pause the song.
- Used Reactjs to create the frontend, Django (REST) for the backend, SQLite for the DB, Spotify API for the music control.

## SKILLS

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### Programming Languages

Python, C++, Javascript, C#

### Databases

PostgreSQL, MSSQL

### Tools

Git, Docker, Linux

### Web Technologies

HTML, Bootstrap, jQuery, React.js, Django, Blazor Web Assembly

### Data Science

Pandas, Numpy, Scipy, Scikit-Learn

### Version Control/Testing

Pytest, Coverage, Selenium

## CERTIFICATES

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### Python For ML/AI by Talentsprint

Python Training with various libraries used for Data munging and ML

### Bravo Award - Zscaler (x2)

Received Bravo Award twice which is on the spot award for exemplary work worth 300\$.

### ReCogNurize 2.0 - Nurture Tek Knight by Cognizant

Completed Hands-on problems and courses offered, was in Top 20 performers across India.

### Monthly Recognition Award - Zscaler

Received Monthly recognition award for exemplary work.