

# RUTUJA ZENDE

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## Education

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<b>Stony Brook State University</b> <i>Master of Science in Computer Engineering</i>	<b>May 2024(Expected)</b> <i>Stony Brook, NY</i>
<b>Savitribai Phule Pune University</b> <i>Bachelor of Engineering in Electronics and Telecommunication</i>	<b>Aug. 2017 – Jun 2020</b> <i>Pune, India</i>
<b>Cusrow Wadia Institute of Technology</b> <i>Diploma of Engineering in Electronics and Telecommunication</i>	<b>Aug. 2014 – Jun 2017</b> <i>Pune, India</i>

## Technical Skills

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**Programming Languages:** JAVA, Python, JavaScript, C#, MySQL.

**Web Development:** Angular v9, React.js, Angular.js, Node.js, HTML5, CSS3, jQuery, REST, Bootstrap.

**Tools/Technologies:** Firebase, OpenCV, Tensorflow, StoryBook, Figma, Postman, Git, Bitbucket, Jira, Bamboo, Confluence.

## Experience

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<b>System Engineer</b> <i>TATA Consultancy Services</i>	<b>Aug 2020 – Jul 2022</b> <i>Pune, India</i>
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- Designed and implemented Front End and Real-Time applications using Figma, Angular10, and Angular.JS in the Financial Services domain for The Vanguard Group.
- Legacy Change: Updated the International Product Information Center with Angular v10 from Angular 1x, resulting in an application performance improvement of up to 80% and better investor experience for international websites (USA, UK, Canada, Italy, and Australia).
- Registration Portal: Developed a responsive registration form for investors using Figma designs and increased application uptime by 60% by implementing a Splunk dashboard for monitoring and troubleshooting.
- Improved development efficiency by 30% by using Storybook and Nx for component-driven development.
- Wrote comprehensive unit tests for Angular components using Cypress and Jest, improving code coverage by 90%.

<b>Test Engineer Intern</b> <i>Zensar Technologies</i>	<b>Jun 2019 – Aug 2019</b> <i>Pune, India</i>
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- Designed and developed automation scripts using Selenium WebDriver to automate functional testing of web applications.
- Developed automated test scripts using Python to test APIs and web services.
- Reduced testing time by 50% by designing and developing automation scripts for different levels of testing (System, Performance, Integration, and Regression).

## Projects

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**Object Detection Using Convolutional Neural Networks** - Computer Vision, Python, OpenCV.

- Implemented a novel CNN architecture using a combination of convolutional and pooling layers, with ReLU activation and batch normalization.
- Achieved an accuracy of 95% in classifying images using the model, outperforming existing models in the literature.

**Chat Web Application** - React.js, Firebase.

- Developed and designed a chat application that allows user to have real-time chat with message history and notifications and user profile management with a responsive design for desktop and mobile devices.
- Overcame challenges such as integrating Firebase with React.js, ensuring real-time updates of chat messages, and implementing a secure user authentication system.

**Pick to Light System for Mascot Selection** | TATA MOTORS, INDIA

- Designed a full-proof system that enabled the operator to select the apt mascot (i.e. Protrusions in car body like logo/model) to avoid the wrong fitment, ultimately diminishing the rework time.
- The concept of Pick-to-light system is a visual indication mechanism that guides the operator to pick the suitable Mascot for the car model standing at the workstation via a colored LED Light.

## ACHIEVEMENTS AND AWARDS

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- Received the "On the spot Award" at TCS in recognition of delivering results with minimal resources and being one of the best performers (2020).