

Rutuja Zende

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Education

Stony Brook State University

Master of Science in Computer Engineering, GPA: 3.63/4.0

Aug 2022 – May 2024

Stony Brook, NY

Savitribai Phule Pune University

Bachelor of Engineering in Electronics and Telecommunication, GPA: 8.28/10

Aug 2017 – Jun 2020

Pune, India

Technical Skills

Languages & Technologies: Java, Python, JavaScript, C++, C#, TypeScript, AWS, Azure, Google Cloud, Docker, Kubernetes, CI/CD, Linux, Object Oriented Programming, Figma, Git, Bitbucket, Confluence, Jira.

Web Development: React, Angular, Node.js, Redux, AJAX, HTML5, CSS3, REST, Bootstrap, Selenium, Jest.

Experience

Software Engineer

Jul 2024 – Present

Barclays - S360 Risk & Compliance Platform Team

Whippany, NJ

- Drove development of core features enabling managers to monitor trading activity, triage alerts, and investigate compliance events in a scalable platform.
- **Copilot Integration:** Added agent integration to the S-360 platform, collaborating with designers and product managers to create an intuitive query experience, and enabling users to fetch insights via natural language.
- **Alert Insights & Drilldown experience:** Implemented a configuration-driven rendering schema that customizes data visualizations for different alert types. Built using React and Typescript.
- **Infrastructure:** Setup up deployment of backend microservices in AWS based Kubernetes with autoscaling based on queue workloads. Automated CI/CD in GitLab to effectively manage deployments.

Software Engineer

Aug 2020 – Jul 2022

TATA Consultancy Services

Pune, India

- Collaborated with cross-functional teams and our client The Vanguard Group to build real-time web applications using Angular10, AngularJS and RESTful API driven micro services.
- **Legacy Change:** Led migration of the International Product Information Center to Angular v10, resulting in up to 80% application performance improvement and better investor experience for international websites.
- **Investor Registration Portal:** Collaborated effectively with product management, UX design teams to develop a responsive registration portal using RESTful APIs, Node.js and Angular10 to uniquely identify investors using data from government services. Added monitoring and troubleshooting support using Splunk.
- **Testing & Deployment:** Led testing efforts by adding comprehensive unit tests for Angular components using Cypress and Jest to increase code coverage by 90%.

Projects

Soosh - AI based News App - Android, LLMs, Firebase.

- Developed an AI-powered Android news app to provide 60-word article summaries using ChatGPT API.
- Leveraged LLM prompt to return summarized articles in JSON format as per DB schema.

Messenger Chat Web Application - React.js, Firebase.

- Developed and designed a real-time chat web app for mobile and desktops supporting user message history, notifications, profile management and secure authentication with Firebase NoSQL database and responsive ReactJS.

Rise Of The Undead 3D Game - Unity, Virtual Reality, C#.

- Created game mechanics where the player must scavenge for resources, craft weapons, and fend off zombie attacks.
- Developed realistic zombie AI and environmental effects, such as day-night cycle, to create an immersive experience.

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

- Implemented CNN architecture with a combination of convolution, batch normalization and max pooling layers using Python, OpenCV. Achieving an accuracy of 95% in classifying images.

Awards & Leadership

- Received the "On the spot Award" at TCS in recognition of delivering results with minimal resources and being one of the best performers (2020).
- General Sports Secretary at SPPU(2019-2020), organized various sports events.