

Disha Shetty

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EDUCATION

Binghamton University, State University of New York

Master of Science, Computer Science

May 2024

GPA: 3.60/4.00

University of Mumbai

Bachelor of Science in Engineering, Computer Science

May 2019

GPA: 3.36/4.00

EXPERIENCE

Software Engineer Research Intern | Binghamton University, State University of New York- NY, USA

Aug 2024 - Present

- Develop and implement advanced network simulations in **ns-3**, focusing on the mobility and propagation models and analyze **LoRaWAN** performance, evaluating key performance metrics such as packet delivery ratio, latency and energy efficiency
- Configure and debug simulation modules, which includes **core**, **propagation** and **LoRaWAN** enabling accurate results and real-world wireless network behavior; replicated them in indoor- like environment area such as university campus or hospitals
- Optimize simulation environments such as **CMake** and custom scripting to debug and resolve issues, enhancing by improving the performance metrics, ensuring seamless integration of mobility and propagation components

Jr. Front End Developer Intern | Creatrify - Los Angeles, CA, USA

Jan 2024 - May 2024

- Developed new options on the website's homepage for users to purchase products or services via one-on-one sessions and schedule live streams; collecting user information and sending mobile notifications to send updates by utilizing **Angular 15** framework
- Optimized frontend performance using lazy loading, ensuring smooth user experience by **25%** increase in page load times
- Collaborated with UI/UX designers and backend developers to integrate APIs and services and identify defects to ensure compatibility with mobile and website versions, presenting potential solutions to CEO by utilizing **Atlassian Jira** and **Bitbucket**

Software Engineer | Atos Syntel - Mumbai, MH, India

Sep 2019 - July 2022

- Developed a full-stack application, managing websites through the implementation of session management, caching, cookies; executed deployments to higher environments using real-time publishing, ensuring the delivery of web pages tailored to client specifications; streamlining tasks such as offer activations, Emirates ID Renewal, and mobile portability
- Designed an easy-to-use UI system utilizing **Vue.js** by integrating backend data with **Java** and **Java Server Pages (JSP)** and integrating APIs with cross functional teams by utilizing **Postman**; spearheaded the design and integration of an innovative international calling benefits workflow for 192 countries, pivotal to the framework of the worldwide EXPO 2020 Dubai
- Demonstrated and gained expertise in project management within the telecommunications sector, successfully leading the development of 25 Change Requests (CR) Projects by utilizing a paced **Agile** methodology
- Developed Solution Designs for nearly **ten** CRs, reviewing and refining each one with respect to impacted domain-lead team for dashboard revamp by presenting additional features to the users

PROJECT EXPERIENCE

Artists Success Trends Analysis: Python, Spotify API, Reddit API, factory, MongoDB, Flask

[\(Github\)](#)

- Led a team of five to conduct trend analysis on musicians who are trending on Spotify and the songs which were on the top charts by gathering real-time data from **Spotify** and **Reddit API** with the help of **factory** and **OAuth2** for storing data in **MongoDB**
- Conducted domain analysis on top music related subreddits such as r/Music, r/Spotify using **DataFrames** and **JSON**; devised and answered three research questions primarily utilizing **matplotlib** to analyze the trends
- Designed and developed an interactive webpage using **Flask** to generate custom graphs which answered correlation, sentimental and predictive analysis enabling user input for dynamic projection

Audio Rooms using WebRTC: AWS, Amazon Load Balancer, DynamoDB, Docker, React.js

[\(GitHub\)](#)

- Engineered a Cloud Project that enables user group collaboration and audio sharing through link-sharing functionality
- Employed key Cloud Services **Amazon Load Balancer/Elastic Container Service** and **DynamoDB** to establish robust coupling
- Utilized **React.js** for website design, **SpringBoot for Rest API** and **Docker** for efficient image generation

du Telecom: Oracle WebCenter Sites (OWCS), Vue.js, Java 8, HTML5, CSS, jQuery, OracleDB

[\(Website\)](#)

- Utilized **Oracle WebCenter Sites (OWCS)** tool for creating lightweight and responsive web application by using **Javascript** and **Vue.js** for scalable portal with over one million customers; integrating backend web services with **Java 8**; **Oracle DB** for Data Plans
- Functioned as a full-stack developer in Selfcare domain, integrating **HTMLs** with **REST APIs**; developed API structures in **JSON** Format based on **XML** references and facilitated payment flows using **MasterCard Internet Gateway Services**
- Crafted responsive websites using **HTML5**, **CSS** and **Javascript**, integrating **AJAX** calls for API interactions; ensured testing in high environments before deploying production code in response to Change Requests

TECHNICAL SKILLS

- **Programming Languages:** C++, Java SE, Python, JavaScript, TypeScript, JSON, XML
- **Web Technologies, Frameworks and Libraries:** Vue.js, Angular, React.js, HTML5, CSS3, Flask, RESTful APIs, jQuery
- **Cloud Platform and Databases:** AWS, Google Cloud Platform (GCP), MySQL, Oracle, MongoDB
- **Software and OS:** Linux, Eclipse, Spring Boot and Microservices, Oracle WebCenter Sites, Postman, JIRA
- **Additional:** Git, GitHub, Bitbucket, AJAX, Data Visualization, Database Management, Data Manipulation