

THELMA MELISSA GOMES

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EDUCATION

Master of Science: Computer Science, University at Buffalo, The State University of New York, **Dec 2022**

Bachelor of Engineering: Computer Engineering, University of Mumbai, India, **May 2018**

SKILLS & TOOLS

Languages/ Frameworks: Python, Java, Sql, Flask, C# (Basic)

Web Development: HTML, CSS, JavaScript, RESTful Web services

Blockchain Development: Solidity, Smart Contracts, Truffle, Ganache, Node.js, Metamask

Tools: AWS EC2, Git, Android Studio, Eclipse, Jupyter, JIRA, ServiceNow, Postman

Database Management: MySQL, PostgreSQL | **Technologies:** Apache SOLR

Miscellaneous: JSON, XML, Twitter API, YouTube API, FIX (Financial Information Exchange) Connectivity Protocol

WORK EXPERIENCE

Technical Support Analyst, BNP Paribas India Solutions Pvt. Ltd, India: Mar 2020 – July 2021

- Scripted and engineered an important Audit Report extraction tool and its entire CFT workflow.
- Conducted complete end-to-end functional testing and implementation of production releases.
- Led the migration of the Bank's legacy application 'Fixlink' from physical to Cloud-based infrastructure.
- Implemented Linux, Windows Server builds, Database and Application migration, setup of network connections.
- Migrated all the major project repositories from Tortoise SVN to Bitbucket for increased scalability.

Associate Technical Support Analyst, BNP Paribas India Solutions Pvt. Ltd, India: June 2018 – Feb 2020

- Developed more than 20 Python and Shell scripts to automate day-to-day tasks and deliverables for Electronic Trading applications, increasing the team efficiency by **75-80%**.
- Primarily handled functionalities of one the most critical banking applications assigned to the team.
- Performed effective Root Cause Analysis and troubleshooting on technical and deployment issues.
- Mentored new team members with a thorough understanding of the infrastructure, Python, and hands-on usage of Linux through knowledge transfer sessions.

Android Developer Intern, Laqshya Infosoft Solutions, India: Feb 2017 – May 2017

- Developed an online polling Android app with its User Interface design having a variety of questions categories.
- Built graphical insights of the voting results of each poll for easy analysis and to enrich the application UX.
- The organization selected this project for its official publication on the Google Play store. Post this, it achieved 45% more users than the other applications developed by the same.

COMPUTER SCIENCE PROJECTS

Twitter - The COVID Effect: Python, Flask, HTML, CSS, JavaScript, Apache SOLR, AWS EC2, Bootstrap

- Developed a Search Engine producing COVID-19 related dynamic query results with political impact insights.
- Analyzed the results and classified them using Sentiment Analysis and semantics from a corpus of 80,000 multi-lingual tweets, indexed in Apache Solr using the BM25 model.

Dance and Community Engagement Blockchain: Solidity, Smart Contracts, Node.js, Truffle, Ganache

- Created and designed Smart Contracts using Solidity Programming language in Ethereum Blockchain.
- Developed a frontend web interface for Dance enthusiasts like Students, Teachers, Studio owners and Renters to perform engaging business, using self-created DNCE (ERC-20 standard fungible) tokens.
- Engineered the backend integration using Node.js and npm and incorporated transaction management through the Metamask digital wallet.
- Executed thorough end-to-end testing using the Truffle and Ganache network.

PUBLICATION

'Interactive Print Media Using Augmented Reality', Springer, 2019

- Developed an Android application that superimposes YouTube videos on printed photos.
- Using Marker-less AR and a self-developed YouTube video ranking algorithm, the app scans images from books and display relevant videos in augmented view.
(https://link.springer.com/chapter/10.1007/978-981-13-3393-4_23)

AWARDS & LEADERSHIP

- 3rd Place in Inter-College Final Year Project competition held at St. Francis Institute of Technology, 2018.
- Founder & Dance content creator at GomesSquad (YouTube channel).