

# 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, C#, Java, Sql, Flask, .NET | **Operating Systems:** Linux, Windows

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

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

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

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

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

## WORK EXPERIENCE

**Teaching Assistant, University at Buffalo:** September 2022 – Present

- Assisting Prof. Sreyasee Das Bhattacharjee in the course 'Data Models and Query Languages'.
- Tasks include grading students' work, handling doubts, setting up class activities and quizzes.

**Software Development Engineer Intern, GoDaddy:** May 2022 – August 2022

- Implemented and enhanced existing API endpoints in the Front-Of-Site Shopping services team.
- Developed a library to enable warnings for product packages having outdated or updated information.
- Migrated Packages mapping service from .Net 4 to .Net 6.

**Technical Analyst, BNP Paribas India Solutions Pvt. Ltd, India:** June 2018 – 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.
- 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%**.

**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 question 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**

- Using Marker-less AR and a self-developed YouTube video ranking algorithm, it scans images from books and display relevant videos in augmented view. ([https://link.springer.com/chapter/10.1007/978-981-13-3393-4\\_23](https://link.springer.com/chapter/10.1007/978-981-13-3393-4_23))

## AWARDS & LEADERSHIP

- Tools Innovation Award, for QnA Slackbot 'IsItAnswered', at GoDaddy, Intern Hackathon, 2022.
- 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).