TEBBY THOMAS

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WEBSITE: https://www.tebbythomas.com
GITHUB: https://www.github.com/tebbythomas

SUMMARY

M.Tech Computer Science Graduate with 4 years of experience looking for full stack development and data analytics roles

EDUCATION

- **Master of Technology, Computer Science and Engineering** — **July 2018**
  Manipal Institute of Technology, Manipal, Karnataka, India — CGPA: 8.16 / 10
- **Bachelor of Technology, Computer Science and Engineering** — **June 2011**
  Amrita Vishwa Vidyapeetham University, Bengaluru, Karnataka, India — CGPA: 7.73 / 10
- **Master of Science, Computer Science and Engineering (incomplete)** — **July 2013-May 2015**
  The Ohio State University, Columbus, Ohio, USA

PROFESSIONAL EXPERIENCE

Upwork - *Bengaluru, India* **-** **Freelance Software Developer** **May 2019 – Present**

Upwork Profile*:* https://www.upwork.com/freelancers/~01ffb805d6d2ec1cd2
Github Repository: https://github.com/tebbythomas/Freelance_Projects
Worked on 15+ web development, web services, data analysis and other projects for US, UK, AUS etc. based clients:

- *Data Extraction Projects* – multiple web scraping projects done using **Python, Selenium, Beautiful Soup 4 and Scrapy**
- *Web Services projects* –multiple Python **SOAP** and **REST** web service projects handling API calls and **json** parsing for a US-based insurance agency
- *Data Analysis* – analyzing video game sales data using **Jupyter Notebooks, NumPy and Pandas**
- *Database* – MySQL using **MySQL Workbench** projects involving DB modeling, normalization, CRUD operations

Intel - *Bengaluru, India* **–** **Graduate Technical Intern** **May 2017 – May 2018**

- Worked as a **Functional Safety Validation intern in IOT Group** to validate safety island in compliance with ISO26262.
- Developed firmware validation code, validation plans and implementation of C based test content for functional safety tests with focus on IPs like **PCIe and System Management.** Also worked on **LDRA** for test validation, code coverage.
  Tools: LDRA, QNX Momentics, IBM JAZZ RTC, RQM; **Programming Languages**: C, C++

Nationwide Insurance – *Columbus, Ohio, USA* **–** **IT Application Development Intern** **May 2014 – Aug 2014**

- Worked on web application code migration from deprecated Applogic Framework to Struts 2 Framework
- Worked on a High complexity Technical Debt in Nationwide's Plan Administration Services website
- **Programming Languages**: Java, HTML, CSS, JS; **Database Used**: Oracle 11g

Infosys Limited - *Bengaluru, India* **–** **Systems Engineer** **July 2011 – July 2013**

Developed Java web services and client-server applications for client - **Cisco Systems, Inc**.

- Administrative XML: Feature developer for a **Java** based **Web Services SOAP** application interacting with Cisco Unified Communications Manager's (CUCM) database.
- Dialed Number Analyzer: Feature developer for a tool that tests the dial plan configuration of the CUCM prior and after deploying the dial plan. Code-base used both **Java and C**

Infosys Limited - *Mysuru, India* **–** **Foundation Program Intern** **Feb 2011 – June 2011**

Worked on an Android application integrating a to-do list with a user's GPS.
Tools: Android Emulator, Eclipse; **Database Used**: SQL Lite; **Programming Language**: Java

PROJECTS

- **Django Blog Web Application -** https://github.com/tebbythomas/Django_Blog_Project **–** Built a functional web blogging application using the **Django** framework and hosted it on an **Ubuntu** server.
  Features: registering and **logging** of **users, access privileges** for users**, CRUD** operations on blog posts, **forgot my password email reset** option, **pagination** of blog posts, profile pic uploads using **Amazon S3, admin section**, etc.
  The application was ported to a **Linode** Ubuntu virtual private server with security access enabled, **SSL/TLS certificate** enabled using **Let's Encrypt** and run using an **Apache** server.
  Other libraries used: Django 2.2, django-crispy-forms, Pillow, requests, Python3, mod_wsgi etc**.**
  Website Link: https://www.tebbythomas.com/blog/

- **Data Visualization Projects -** https://github.com/tebbythomas/Data_Visualization_Projects – Programmed Python 3 scripts to depict real world data using data visualization tools like depicting stack overflow developer survey results using **line plots, a time series graph** of Bitcoin prices, real-time YouTube subscriber data using **histogram** graphs, YouTube trending video stats using **scatter plots**, etc. **Libraries used:** matplotlib, numpy, pandas, csv.

- **Django Portfolio -** https://github.com/tebbythomas/Django-Portfolio-Website – Portfolio website listing some of the projects I've worked on. Website written using Django and hosted on a **Linode** VPS running **Ubuntu**. **Apache** server was used. **Website Link:** https://www.tebbythomas.com

- **Heroes of Pymoli – Video Game Data Analysis -** Freelancing contract job
  https://github.com/tebbythomas/Freelance_Projects/tree/master/Data_Analysis_Projects/J3_Jupyter_Notebook_Heroes_Pymoli
  The project involved analyzing a csv containing the purchase data of a video game's in game purchases. Programming was done using a Jupyter Notebook, using the libraries – csv, NumPy, Pandas.
  The data analysis carried out included:
  Total # of players, Total # of purchases and average amount spent/user, Gender demographics, Age demographics, of the players , Most popular in - game purchases, Most profitable in - game purchases, etc.

- **Hand Written Character Recognition -** https://github.com/tebbythomas/Hand_Writing_Recognizer – a **multi-layer perceptron** neural network written using **Jupyter Notebooks** to read handwritten characters as pictures and convert them to a digital copy of the same content. **Sci-Kit** mlp was used to train the algorithm. The **EMNIST** dataset was used to train the neural network. **88% accuracy** was achieved in predicting the hand written text.
  Libraries used: emnist, matplotlib, csv, pandas, numpy, sci-kit

- **Texas DMV Website Scraper –** Freelancing contract job
  https://github.com/tebbythomas/Freelance_Projects/tree/master/Web_Data_Extraction_Projects/J5_Truck_Project_Scraper
  This project involved scraping txdmv.gov website for insurance, owner information and vehicle history about trucks.
  Libraries used: Beautiful Soup4, requests, json (to store the results)

- **Olx.com Scraper** - https://github.com/tebbythomas/Honda_Civic_OLX_Scraper – Built a web scraper to scrape used Honda Civic car information from olx.com and store the associated details into a csv file. Scraper was built using Python 2 using libraries **requests, urllib3, cookielib**, etc.

- **Automating sending an Email -** https://github.com/tebbythomas/Python-Send-Email - Python script to send an email to multiple recipients, with multiple attachments (images and PDFs) and also send out the message body as an HTML instead of just plain text. **Libraries / modules used:** smtplib, os, imghdr, email.message

- **Automating sending a Whatsapp Message -** https://github.com/tebbythomas/Whatsapp_Automation - Python scripts to send Whatsapp messages to users / groups using the **Twilio** platform and the **Selenium** library

- **WebRTC Based Video Conferencing application –** Built a 2-way video conferencing application using **WebRTC** with audio/video/text chat functionality. Website hosted on **Google Compute Cloud VM**.

- **Android Parking Application -** https://github.com/tebbythomas/ParkingApp **-** Implemented an Android mobile parking application to find live parking information using ParkWhiz API and Google Maps. Application IDE: Android Studio; Programming Language: Java; Database: SQLite

Udacity Full Stack Web Developer – Projects included:

- **Item Catalog –** Built an item catalog application with support for the CRUD operations using **Python's Flask framework** and **PostgreSQL**. Also supported **JSON** endpoints via using **REST**. User authentication was done using **OAuth.** Project used a **Vagrant virtual environment.**

- **Linux Server Configuration –** Involved taking a baseline Linux server on **Amazon Lightsail** and preparing it to host web applications. Tasks included – adding users both **admin** and non-admin, **restricting access** to certain hosts, **installing project dependencies**, configuring **cron** scripts to automatically manage package updates.

- **Server Logs Analysis** – https://github.com/tebbythomas/Udacity-FullStackWebDeveloper-LogsAnalysis
  Primarily a database project to analyze server logs in **PostgreSQL** on **Vagrant** environment and read HTTP Response codes to understand failure rates of the server, and also most popular items being requested