SIU LI
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EXPERIENCE

Software Engineer (Contract)
- *CITI, Irving, TX (Mar 2020 – Aug 2023)*
    - Responsible for updating and maintaining an ETL framework, ensuring data fidelity and availability for downstream consumers. Typically involved working with teams from various other departments, depending on the type of issue or feature request.
    - Assisted in the construction of an internal website that allowed users to visually track data availability for a given product/region/date/etc. and provide access to process logs for each entry to facilitate debugging when needed.
    - Created and implemented a utility module for streamlining the publication of status reports at multiple stages in the data ingestion pipeline. Utilizes a SQL database for storing key details of each report allowing that same module to automate the creation and re-publication for any given product.
    - Provided guidance and wrote documentation on the (recommended) use of various technologies as well as any code written by our own team.
    - Tested the code for bugs and debugging/updating it as needed to address any found bugs, vulnerabilities, or inefficiencies.
    - Skills, technologies, and frameworks utilized in this role: Java, Python, Spark, SQL, HTML, CSS, Django, Hive, Amazon S3, Git, Unix, JIRA.

Software Engineer
- *Larsen & Toubro Infotech, Edison, NJ (Feb 2020 – Aug 2023)*
    - Worked as a consultant for the company, engaging in multiple roles/functions depending on the ever-changing needs of the clients, such as, but not exclusive to writing/reviewing/testing code, training/assisting new hires, minor DevOps, and guidance/recommendations on the use of technologies such as AWS, HDFS/Hive/Hadoop, and data engineering.

Intern
- *Larsen & Toubro Infotech, Edison, NJ (Nov 2019 - Jan 2020)*
    - Enrolled in a training program to familiarize interns with Big Data concepts and technologies.
    - Wrote HiveQL queries in Hive to perform variables operations such as creating tables and external tables, loading data from various sources into those tables, and modifying those tables by partitioning and/or bucketing.
    - Wrote JavaSpark and PySpark code to create dataframes, datasets, RDDs, and modified/parsed them using transformations and actions.
    - Skills, technologies, and frameworks utilized in this role: Java, Python, SQL, Spark, Hive, Unix.

Test Engineer (Contract)
- *Zebra Technologies, Holtsville, NY (Nov 2016 - June 2018)*
    - Created/executed test scenarios that implemented the various testing methodologies (i.e. system, reliability, stress) to reproduce software/hardware faults and test fixes.
    - Worked in teams with software and electrical engineers to diagnose, document and develop test plans to reproduce reported issues and isolate the root causes.
    - Used JIRA and SharePoint to submit/update/resolve tickets and progress reports.
    - Worked with Bluetooth, various barcode symbologies (UPC-A, PDF-417, QR, Aztec, Maxicode, etc..), and hand-held/hands-free scanners.
    - Skills, technologies, and frameworks utilized in this role: Python, JIRA.

Consultant
- *TEKsystems, Hanover, MD (Nov 2016 - June 2018)*

Intern (Jr Web/App Developer)
- *Quilksoft, Patchogue, NY (July 2016 - Oct 2016)*
    - Learned from senior web developers about best practices for writing, testing, and debugging code.
    - Assisted in writing code for the graphical elements of the login and registration pages as well as some back-end code for storing/updating registrants' information in the database and some logic code for the games.
    - Skills, technologies, and frameworks utilized in this role: HTML, C#, Angular.

PROJECTS

Personal website: https://www.metacrypha.com/
- Built a website that currently hosts three applications: a reference for programmers, which covers key languages/technologies in Django web development, another which hosts references/guides for gamers, and another which allows users to visually compare up to three stocks in a given timeframe. Users, if they choose to, can register for an account, allowing for privileged access to member-only pages. Users' login information is encrypted using the Argon2 hashing algorithm, ensuring a greater deal of protection than Django's built-in password-hashers. The site was developed using the following languages/technologies: Django, Python, SQL, HTML, CSS, Bootstrap, and JavaScript.

Stock Data Trend Visualizer
- Developed an application in Java that downloads the stock data of any publicly traded stock company, parses that data, stores it, and then renders graphical charts that allow users to visualize the stock trends of the company for any period that the user specifies. The data for each stock company is stored locally on a SQL database and can be updated simultaneously at the click of a button. Utilizes Apache Derby, SQL/Commons, IO/Commons, Text/HttpComponents, and JFreeChart APIs.

Personnel/Task Management System
- Developed an application in Java that allows users to access and manage a registry of users and tasks using a graphical interface. Users can create and assign tasks to themselves and/or others. These tasks can be updated to reflect the completion level of the task, modify the description, change the deadline, or to add or remove assignees. The data is stored locally on a SQL database and the data can be exported onto an Excel spreadsheet. Utilizes the Apache POI/Derby SQL APIs.

See the code on **GitHub**: github.com/Naxess/Portfolio
Only the latter two projects are set to public visibility. They are merged into a single application. You can select which application to run at the start menu.

EDUCATION

St. Joseph's College, Patchogue, NY
- *B.S. in Computer Science/Mathematics, 2016 (GPA: 3.6)*
- Coursework:
  - Computer Programming (Java), Data Structures & Algorithms (Java), Advanced Computer Programming (Java), HCI (Human-Computer Interaction), Operating Systems, Math Foundations of CS, Computer Graphics (C++), Advanced C++, Mobile Applications (Android), Computer Organization & Assembly Language