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Elliot Yun

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WORK EXPERIENCE

Epic Systems   **Jan 2016 – Current**
SQL Developer

- Extracted and processed financial data using complex SQL over 1500 lines long to supply data for predictive modeling and report ad hoc analysis to executives
- Performed data cleansing and conversion to debug internal systems in C# for fixing incorrect workflow
- Developed internal projects in C# to automate QA stages for reduced release cycles and utilized Entity Framework to configure object-relational mappings
- Designed and developed a data warehouse with efficient ETL for denormalized invoice and revenue data to increase query performance by 75% on average
- Enhanced query logic to improve execution time from tens of minutes to seconds and reduce server CPU & memory usage
- Altered table indexes and optimized query execution plans to reduce costly table scan operations by 30%

Tunespeak   **June 2015 – Aug 2015**
Full Stack Developer Intern

- Migrated source code from Angular to Ember for a coherent application structure in order to optimize maintenance and simplify the codebase
- Developed web page contents using JavaScript, jQuery, HTML, and CSS with version control using Git
- Assisted in development and maintenance of APIs with Rails to reflect updates in the database structure

Washington University in St. Louis   **Aug 2014 – Dec 2014, May 2015 – Aug 2015**
Head Teaching Assistant (classes: Creative Programming & Rapid Web Prototyping and Mobile App Development)

- Improved grading workflow from MS Excel to the web reducing final grade aggregation time from hours to minutes
- Researched and integrated new Python and JavaScript libraries to the teaching stack for increased exposure

Capital Innovators   **July 2014 – Dec 2014**
Program Associate Developer

- Implemented a web crawler and a batch-emailer in Python using Requests, smtplib, and Gmail API to effectively reach startups increasing the candidate pool by over 300%
- Developed an application with JavaScript and HTML for organizing meetings to eliminate scheduling conflicts

PROJECTS

Sommelier

- Designed and developed a wine recommendation web application using Django, PostgreSQL, and Bootstrap deployed through Heroku
- Utilized scikit-learn for clustering and scipy for matrix operations in performing k-means clustering to group users based on similarities in preferences

Currency Arbitrage

- Implemented the Bellman-Ford algorithm to detect negative cycles in a currency digraph constructed from live foreign exchange rates data to identify arbitrage opportunities
- Automated currency data collection by scraping HTML content with urllib3, BeautifulSoup, and Selenium

Lyrics Template Generator

- Created a statistical model using Markov Chains with N-grams to generate templates for writing lyrics
- Developed a Scrapy-like web crawler in Python to automate extracting billboard songs' lyrics

EDUCATION

Washington University in St. Louis   **Saint Louis, MO**
B.S in Computer Science and Finance   *Graduated Aug 2015*
CS Major GPA: 3.64/4.0

SKILLS

Languages: Python, C#, T-SQL, SQL, Java, JavaScript, HTML, CSS
Database Systems: SQL Server, PostgreSQL, MySQL
Technical Experience: Algorithms & Data structures, TensorFlow, PyTorch, Pandas, NumPy, Entity, Flask, jQuery, Hadoop, Spark, Docker, Git, Scrum, Data warehousing, ETL, SSIS, SSRS, VBA