MARI HUSAIN

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Education

Columbia University   **New York, NY**
Bachelor's of Computer Science. CGPA: 3.94   Class of 2020 (Expected)

Recent Coursework: Machine Learning, Intro to Databases, CS Theory, Programming Languages + Translators, NoSQL Databases, JavaScript, C#, Probability Theory, Analysis and Optimization

Experience

Anchorage Capital Group   **New York, NY**
Data Analyst Intern   Summer 2018

- Used Python NLP and machine learning libraries (NLTK, Gensim) to design a newsfeed aggregator capable of grouping together articles concerning the same subject and selecting the most relevant headline from each topic to generate an email digest.
- Implemented ETL pipelines using Python (BeautifulSoup, Pandas, NLTK) to scrape, clean, and insert and/or merge data into an MSSQL database.
- Used Python, Tableau to research + develop a model for global ship fuel consumption.

HCA Healthcare   **Denver, CO**
Software Engineering Intern   Summer 2017

- Developed a web-based clinical data interface for nursing staff from spec to production using Bootstrap, C#.NET, and MSSQL.
- Added web forms and administrator features and fixed authentication bugs in the existing C#.NET physician peer review application. Updated the UI using Bootstrap.

Projects and Extracurriculars

Joel   *Group project for COMS4115: Programming Languages and Translators.*

- Developed a programming language allowing SQL-like editing of .csv files.
- Used OCaml/OCamllex to develop the language's scanner, lexer, parser, and a separate lexer/parser for .csv files; used LLVM IR to generate machine code from the syntax tree.
- Responsible for development of a suite of Python unit tests.

Web ATM   *Group project for COMS3101: Introduction to C#*

- Led a team of four to design and build a C#.NET Web ATM with account creation, balance inquiry, deposit, and withdrawal functionality.
- Implemented a REST API via Flask to query a Sqlite3 database containing account/login data. Implemented secure password hashing using BCrypt.

Statistics Help Room

- Provides peer tutoring to students enrolled in Columbia's introductory statistics courses.

Languages and Technologies

Used Extensively: Python, Java, SQL, Git
Familiar With: C#.NET, JavaScript, C, HTML, CSS, Linux, NoSQL databases, Tableau