RICCARDO PROSDOCIMI

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Available: January 2024 – June 2024

EDUCATION

Northeastern University - Boston Campus, Boston, MA   September 2021 – August 2024
MS in Computer Science Candidate   GPA: 4.00 / 4.00
Relevant Coursework: Data Structures, Algorithms, and Their Applications within Computer Systems, Object-Oriented Design, Fundamentals of Computer Networking, Database Management Systems, Web Development, Discrete Structures.

Minnesota State University - Mankato (AACSB Accredited), Mankato, MN   January 2015 – May 2019
BS in Marketing, Certificate in Business Analytics, Minors in Entrepreneurship and Business Administration   GPA: 3.99 / 4.00

TECHNICAL KNOWLEDGE

Languages: Python, Java, SQL, JavaScript, HTML, CSS, C, Bash, LaTeX.
Tools & Frameworks: Git, GitHub, Node.js, React.js, jQuery, REST APIs, Wireshark, Qualtrics, Smartsheet, Tableau, SPSS.
Databases: MySQL, MongoDB.

PROJECTS

NBA Database (with PyMySQL and Pandas/Matplotlib), *Northeastern University*   March 2023 – April 2023
- Built a database in MySQL populating it with data about the National Basketball Association from an API.
- Created a simple console application with PyMySQL to show insightful statistics and graphs using complex SQL procedures and the Pandas/Matplotlib libraries.
- Expanded database's functionalities to support multiple users with different access privileges and password hashing.

Roll Your Own CDN (with GeoIP database and scamper), *Northeastern University*   November 2022 – December 2022
- Created building blocks of a Content Delivery Network in Python using a DNS server, an origin server, and 7 HTTP/replica servers located worldwide.
- Implemented a DNS redirection to send clients to replica server with fastest response time and wrote a simple Web server returning content requested by clients.
- Designed a system leveraging info about network performance, load on servers, and cached data at servers to determine best replica server; first, deploying a GeoIP database for passive measurements, then switching to scamper for active ones.

CoinChat (with React.js, Node.js, REST API, MongoDB), *Northeastern University*   September 2022 – December 2022
- Developed a social networking website with login functionalities for looking up and saving cryptocurrencies in a watchlist, following other users, and writing blogs.
- Programmed the front-end in React, the back-end in Node.js, implemented the database using MongoDB, and pulled crypto data from CoinGecko's API.

Shapes Photo Album (with Java Swing GUI), *Northeastern University*   March 2022 – May 2022
- Built an application in Java to design a simple photo album from shapes following the Model-View-Controller architecture.
- Programmed it to support description of data to visualize in a .txt format; had application render descriptive text in an interactive graphical view (using Swing) and a static web view (using HTML markup and SVG).
- Wrote JUnit tests for each class and method as well as improved overall structure and hierarchy of classes, with an emphasis on readability and flexibility of code.

EXPERIENCE

Northeastern University - Department of Biology, Boston, MA   January 2023 – Present
Technology Consultant
- Introduce Smartsheet to streamline and speed up processes involving form submissions; previously conducted via numerous back-and-forth emails due to a lack of clear guidelines on documents needed to fulfill requests.
- Improve business intelligence by utilizing Smartsheet's built-in functionalities and dashboard to track the time requests take from creation to fulfillment.

ADDITIONAL SKILLS

People skills: Communication, Leadership, Teamwork (refer to my LinkedIn for experiences demonstrating these).
Spoken languages: English (fluent), Italian (native).