

# RICCARDO PROSDOCIMI

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Available: July 2023 – December 2023 or 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*

GPA: 3.99 / 4.00

Minors in Entrepreneurship & Innovation and Business Administration, Beta Gamma Sigma (top 10% of business students), Honors Program (demonstrated competency in leadership, research, and global citizenship).

## TECHNICAL KNOWLEDGE

**Languages:** Python, Java, JavaScript, C, Bash, LaTeX.

**Tools & Frameworks:** Git, Node.js, React, Qualtrics, Smartsheet, Tableau, SPSS, Analytic Solver, Microsoft Office.

**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 fairly complex SELECT statements and the Pandas/Matplotlib libraries.
- Expanded database's functionalities to support multiple users with different access privileges and password hashing to protect sensitive data.

**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 measurements.

**Shapes Photo Album (with Java Swing GUI)**, Northeastern University

March 2022 – May 2022

- Built an application in Java with multiple classes and packages 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).
- Conducted 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*

- Introduced Smartsheet to streamline and speed up processes involving form submissions; previously conducted via numerous back-and-forth emails due to lack of clear guidelines on documents needed to fulfill requests.
- Improved business intelligence by utilizing Smartsheet's built-in functionalities and dashboard to keep track of how much time requests take from creation to fulfillment.

**Kato Engineering**, North Mankato, MN

January 2018 – May 2018

*Marketing Consultant*

- Performed market research within a team of 4 to estimate the U.S. market for parts and service and identified the location of service centers through a nationwide survey using Qualtrics.
- Mailed 1304 surveys, cover letters, and return envelopes | 110 responses | 8% response rate.