

RICCARDO PROSDOCIMI

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EDUCATION

Northeastern University, Boston, MA

September 2021 – May 2024

Master of Science in Computer Science; GPA: 4.00 / 4.00

Activities: NEU Blockchain Club, Sharpe (Graduate Fintech Initiative), Competitive Programming Club, Hack Boston.

Relevant Coursework: Object-Oriented Design, Data Structures and Algorithms, Building Scalable Distributed Systems, Web Development, Machine Learning, Database Management Systems, Computer Networking, Computer Graphics.

Minnesota State University - Mankato (AACSB Accredited), Mankato, MN

January 2015 – May 2019

Bachelor of Science in Marketing and Certificate in Business Analytics; GPA: 3.99 / 4.00

TECHNICAL KNOWLEDGE

Languages: Python, Java, JavaScript/TypeScript, C/C++, SQL, HTML/CSS, Bash.

Tools & Frameworks: AWS/GCP, Docker/Kubernetes, RESTful APIs, NodeJS, ReactJS, Linux, PyTorch/TensorFlow.

Databases: MySQL (SQL), MongoDB (NoSQL), DynamoDB (NoSQL).

PROFESSIONAL EXPERIENCE

Northeastern University - Department of Biology, Boston, MA

January 2023 – February 2024

Technology Consultant

- Created a comprehensive dashboard for visualizing form submission data, offering actionable insights and supporting data-driven decision-making within the department.
- Enhanced department efficiency and productivity by 80% by optimizing the form submission process with Smartsheet, incorporating streamlined workflows and automations for improved operations.
- Developed and integrated automation workflows for initial data entry and confirmation notifications, facilitating seamless data management and communication processes.
- Engineered user-centric forms, focusing on intuitive design and logic to elevate the user experience in academic settings, supporting the department's digital transformation.

RELEVANT PROJECTS [\[many more\]](#)

AWS Full-Stack DevOps IaC [\[link to project description, ask me for access to GitHub repo\]](#)

July 2024

- Developed a responsive web UI with ReactJS including text and file input fields.
- Implemented file upload to S3, file paths storage in DynamoDB, and automated EC2 instances creation via Lambda.
- Followed AWS best practices, used Cognito as API-Gateway authorizer, and created triggers to execute bash code.
- Utilized AWS CDK (TypeScript), CloudFormation, and SDK JavaScript V3 for infrastructure as code management.

Machine Learning for Predictive Failure in Industrial Machinery [\[link\]](#)

March 2024 – April 2024

- Engineered an ML-based tool that forecasts industrial machinery failures 24 hours in advance using PyTorch.
- Implemented a comparative multi-model approach to analyze raw telemetry and other industrial data, fine-tuned and validated using a train-val-test evaluation regime.
- Attained outstanding predictive accuracy with validation and test AUROCs surpassing 0.99.

Hewlett Packard Enterprise Software Engineering Job Simulation on Forage [\[link\]](#)

January 2024

- Wrote a proposal for a RESTful web service to manage a list of employees.
- Built a web server application in Java Spring Boot that can accept and respond to HTTP requests.
- Developed and ran a set of unit tests to assess my Java Spring Boot application's performance.

NBA Database [\[link\]](#)

March 2023 – April 2023

- Engineered a MySQL database to store NBA data fetched from an API, optimizing the schema for efficient querying.
- Developed a Python console app to extract and present insightful statistics, leveraging modular design for scalability.
- Implemented advanced SQL procedures and utilized Pandas/Matplotlib to create graphs/charts for data visualization.

CoinChat [\[link\]](#)

September 2022 – December 2022

- Developed a full-stack social networking web app, implementing login functionalities and RESTful API endpoints.
- Collaborated within an Agile framework as a member of a Scrum team following bi-weekly sprints.
- Utilized React.js for the user interface, Node.js for server-side development, and MongoDB for database integration.