

Juan Diego Dumez

857-277-4586 | dumezgarcia.j@northeastern.edu | [linkedin.com/in/jdumezg](https://www.linkedin.com/in/jdumezg) | github.com/jdumez10 | jdumez10.github.io

EDUCATION

Northeastern University, Khoury College of Computer Sciences <i>Master of Science in Computer Science</i> GPA: 4.0/4.0	Boston, MA <i>Sep 2022 – May 2025</i>
Universidad de America, Faculty of Engineering <i>Bachelor of Science in Petroleum Engineering</i> GPA: 4.59/5.0 (92%)	Bogota, COL <i>Jul 2013 – Nov 2019</i>
Universidad de los Andes, Faculty of Sciences <i>Bachelor of Science in Geosciences</i> GPA: 4.52/5.0 (90%)	Bogota, COL <i>Jul 2014 – Jul 2019</i>
Coursework: Algorithms, Database Management Systems, Web Development, Modeling & Numerical Analysis	
Awards: Khoury Research Apprenticeship, Colfuturo Scholarship, Ramon de Zubiria Distinction	

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, HTML, CSS, MATLAB, SQL, R, VBA
Technologies: React, Node.js, Express.js, jQuery, Redux, Bootstrap, MongoDB, MySQL, Spring, Spark, Hadoop
Tools: Git/GitHub, PowerBI, Tableau, JIRA, Visual Studio, VS Code, PyCharm, IntelliJ, Microsoft Office
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, PySpark, TensorFlow

EXPERIENCE

Software Engineer - Color Image Scientist Co-Op <i>E Ink Corporation</i>	Jan 2023 – Present <i>Billerica, MA</i>
<ul style="list-style-type: none">Developed and maintained an internal web application using Flask, Django, and Dash to optimize ePaper panel development, reducing development time by 30%Debugged and configured ePaper demo units software driver using Python and MVC methodology, improving performance by 25%Enhanced reliability of ePaper demo units by implementing robust testing procedures, resulting in a 30% reduction in downtime and troubleshootingDeveloped a standalone software application with a custom GUI for efficient ePaper demo unit control, reducing setup time by 40%	
Khoury Research Apprentice <i>Northeastern University</i>	Sep 2023 – Present <i>Boston, MA</i>
<ul style="list-style-type: none">Developed and maintained the 3DSceneGraph-API using Neo4j, GraphQL, and Apollo Server, enabling advanced 3D scene analysis and data manipulation for urban development and virtual navigation applications	
Petrophysicist (Data Scientist) — Scrum Master <i>Drummond Energy</i>	Mar 2020 – Jul 2022 <i>Bogota, COL</i>
<ul style="list-style-type: none">Reduced costs by 30% and decreased rock classification time by 50% by developing ML models for predicting sonic well logs and rock classificationImproved collaboration by implementing a SharePoint website, increasing accessibility to key deliverables by 40%Enhanced subsurface data management by creating and updating databases using SQL and NoSQL databases, and analyzing data using PowerBI, improving data accessibility by 35%Provided Agile project management support as a Scrum Master for a team of 11 contributors	

PROJECTS

Quiz App <i>React, Node.js, MongoDB, Express.js</i>
<ul style="list-style-type: none">Developed a full-stack quiz website with JWT and Passport.js authentication and group sharing, promoting technical interview preparation and knowledge improvement
Rock Type Classification and Properties Prediction <i>Python3, Pandas, Seaborn, Plotly, Scikit-learn</i>
<ul style="list-style-type: none">Accomplished enhanced rock typing classification and prediction of diverse rock properties using supervised and unsupervised ML models, leading to a comprehensive understanding of rock types
Animated Photo Album Shapes <i>Java, Swing, GUI, HTML</i>
<ul style="list-style-type: none">Created a dynamic photo album using Java Swing GUI. Applied design patterns and MVC methodology to efficiently manage and display images