Raymundo Escobar

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EDUCATION

University of Delaware Newark, DE
Bachelor of Science in Computer Science, Minor in Math *Spring 2025*
- Relevant Coursework: Algorithms, Probability Theory & Simulation, Introduction to Software Engineering, Parallel Computing, Database Systems, Data Structures, Systems Programming, Data Mining

EXPERIENCE

Undergraduate Research Assistant May 2024 – Present
University of Delaware *Newark, DE*
- Develop and test C, C++, and Fortran code for new OpenMP API features on high-performance computing systems using GCC, Clang, and Nvidia compilers.
- Engage in weekly code reviews with the V&V community to clarify OpenMP specification ambiguities and assess compiler implementation choices.
- Collaborate with high-performance computing teams to ensure the latest compiler versions are effectively utilized and optimized for new OpenMP features.

Undergraduate Teaching Assistant Feb 2024 – Present
University of Delaware *Newark, DE*
- Collaborated with professors on grading and provided in-class technical assistance
- Introduction to Algorithms: Helping students grasp algorithm design and complexity analysis
- Introduction to Game Development: Supporting students with game mechanics, Unity development, and programming fundamentals
- Database Systems: Assisting students with SQL queries, database design, and normalization concepts

Global Market Access Analytics Intern July 2022 – December 2022
Merck & Co. Inc *Kenilworth, NJ*
- Provided support in finding trends in demographics, economic outlook, pharmaceutical market, employment and health expenditure to help optimize models for benchmarks, and KPI's.
- Statistical Analysis through Excel, IBM Planning Analytics, and Python to create Data Visualizations.

Software Development Intern February 2022 – July 2022
The Bank of New York Melon Corporation *Pittsburgh, PA*
- Collaborated in an agile environment and attended daily Scrum meetings.
- Exposure to machine learning, training models, and creating time series and forecasting.
- Leveraged Hadoop technology for writing Queries, processing and analysis of data to reduce workload by 80 percent.
- Conducted with Data Visualization and Data Profiling with the help of technologies like Spark and Python.

PROJECTS

Restaurant Management Application | *Java, Spring Boot, Angular, Amazon S3* Dec 2021
- Developed a full-stack web application with Java and Spring Boot serving a REST API, and Angular for frontend.
- Implemented Amazon's S3 for storage solutions.
- Including data visualizations for expenses and revenue to provide clear insights into the financial performance of the restaurant.
- Implemented scheduled tasks for weekly batch processing to streamline restaurant operations using Amazon's SQS.

Banking Application | *Java, Spring Boot, Angular* Dec 2021
- Developed an application that mocks P2P transactions, and scheduled payments, utilizing H2 for database management with a team.
- Created using a TDD and utilized JUnit to ensure full test coverage.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, TypeScript
Frameworks/Libraries: Angular, React, Flask, JUnit, Spring Boot
Developer Tools: Git