

Sean Lumasag

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EDUCATION

Rutgers University

B.S. in Computer Science and Data Science

- GPA: 3.9 | Dean's List
- Coursework: Data Structures, Computer Architecture, Statistics, Discrete Structures, Linear Algebra

Expected May 2027

New Brunswick, NJ

EXPERIENCE

Machine Learning Research Intern

Rutgers University

September 2025 – Present

New Brunswick, NJ

- Reproduced experiment results for hybrid client-server ML systems using the Learning to Help (L2H) framework through utilizing Python, PyTorch, and scikit-learn for data preprocessing, model training, and evaluation
- Collaborated with the research team to evaluate model performance using metrics such as accuracy, coverage, and loss across multiple benchmarks to identify areas for improvement in model design

Software Engineer Intern

Data Storytelling

May 2025 – August 2025

Milltown, NJ

- Developed transactional backend features for a fundraising web application by using PostgreSQL, JavaScript, and React, powering \$5,000+ in monthly donations for local non-profits
- Built 8 reusable JavaScript utility functions in collaboration with 3 interns by integrating Supabase and PayPal APIs, ensuring real-time synchronization of user and payment data across 7+ database tables
- Enhanced account security for 200+ customers by configuring 20+ row level security policies, preventing unauthorized data access and ensuring compliance with data protection best practices

Software Engineer Intern

Tag Online

April 2024 – June 2024

Clifton, NJ

- Developed responsive frontend components for business client websites by using HTML, CSS, and JavaScript in an Agile environment with 7 interns, enhancing the UI/UX for 1000+ monthly site visitors
- Optimized site performance and standardized styles based on 4+ legacy codebases and design files by refactoring and migrating websites using WordPress CMS, reducing page load times by an average of 10%
- Delivered 4+ branded pages aligned with business client needs and company branding by integrating and extending functionality of 20+ plugins and themes, increasing user traffic flow by 5%

ACTIVITIES

Software Engineer Fellow

Blueprint

September 2025 – Present

New Brunswick, NJ

- Selected for a backend software development fellowship sponsored by Rutgers Blueprint, developing Python, SQL, and Git/GitHub skills through hands-on projects in database management, client-server systems, and HTTP protocols
- Collaborate in small groups to design, implement, and present a functional backend prototype during the final project to showcase understanding of CRUD application development

Coding Instructor

Hadoop Express

June 2024 – August 2024

Parsippany, NJ

- Instructed Python, block coding, and robotics concepts by utilizing WeDo, EV3, and other learning platforms, achieving a 90% student module completion rate through weekly progress evaluations
- Accelerated student technical growth by implementing 50+ hands-on mini projects, reinforcing core concepts and problem solving skills for STEM classes with 20+ students

PROJECTS

QuantiLabs | React, Spring Boot, PostgreSQL

August 2025

- Developed a full-stack web application serving as a quantitative backtester based on 6+ user market parameter inputs with a React interface and 5 RESTful APIs using Spring Boot to persist backtesting results in PostgreSQL
- Designed and integrated Alpaca API to stream 100+ real-time market data points per second, enabling accurate backtesting and simulation of trading strategies

CKDPredict | React, Spring Boot, PostgreSQL, PyTorch

July 2025

- Developed a full-stack web application serving as a risk predictor for Chronic Kidney Disease based on 4 user health inputs with a React interface and 5 RESTful APIs using Spring Boot to persist prediction data in PostgreSQL
- Integrated and trained a PyTorch machine learning model based on 400+ data samples, deployed via a FastAPI microservice to determine if user health inputs indicate a high or low risk of CKD

SKILLS

Languages: Java, Python, C++, JavaScript, HTML, CSS, SQL

Frameworks: React, Spring Boot, FastAPI, PyTorch

Tools: PostgreSQL, Git, VSCode, Supabase, WordPress