

Sean Lumasag

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EDUCATION

Rutgers University

B.S. in Computer Science and Data Science

- GPA: 3.86 | Dean's List
- Coursework: Data Structures & Algorithms, Computer Architecture, Statistics, Discrete Structures, Linear Algebra

Expected May 2027

New Brunswick, NJ

EXPERIENCE

Software Engineer Intern

May 2025 – August 2025

Data Storytelling

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

Machine Learning Research Intern

September 2025 – Present

Rutgers University

New Brunswick, NJ

- Reproducing experiment results for hybrid client-server ML systems using the Learning to Help (L2H) framework through utilizing Python, PyTorch, Torchvision and NumPy for data preprocessing, model training, and evaluation
- Collaborating with 5 research team members to evaluate model performance using 3 industry standard metrics to identify areas for improvement in model design

Software Engineer Intern

April 2024 – June 2024

Tag Online

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%

Software Engineer Fellow

September 2025 – Present

Blueprint

New Brunswick, NJ

- Selected as 1 out of 30 for a backend software development fellowship, developing Python, SQL, and Git/GitHub skills through hands-on projects in database management, client-server systems, and HTTP protocols
- Collaborating 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

June 2024 – August 2024

Hadoop Express

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