

JANIA VANDEVOORDE

+1 (401) 451-0812 | jania@vdvoorde.com | in/jania-vandevoorde | github.com/janiavdv | janiavdv.com

EDUCATION

University of Michigan • Ann Arbor, MI	August 2025 – December 2026
<i>Master of Science - Computer Science and Engineering</i>	GPA: 3.8
Relevant Courses: NLP, Distributed Systems, Database Management Systems, Information Retrieval, Parallel GPU Programming, Advanced Programming Languages	
Brown University • Providence, RI	September 2021 – May 2025
<i>Bachelor of Science - Computer Science & Bachelor of Science - Statistics</i>	GPA: 4.0
Relevant Courses: Machine Learning, Deep Learning, Systems for ML, Computer Vision, Data Science, Applied Regression, Computer Systems, Algorithms, Theory of Computation	
Head Teaching Assistant: Discrete Mathematics, Data Structures, Machine Learning	

EXPERIENCE

Data Engineer Intern @ MongoDB (Data Pipelines) • New York, NY	June 2026 – August 2026
- Productionized a LangGraph-based agentic support system on AWS Bedrock AgentCore, integrating runbooks, Jira, GitHub PR creation, and reusable skills to automate incident triage and remediation workflows - Designed and productionized Airflow backfill pipelines to ingest GitHub metrics for 25+ previously untracked organizations, improving dataset coverage by 20% through integrations with the GitHub REST API, AWS S3, and Trino - Architected a greenfield ingestion pipeline for a marketing analytics platform, integrating GraphQL APIs into MongoDB's internal data lake and defining Iceberg table schemas with data quality maintenance	
Software Engineer Intern @ MongoDB (Cloud Insights & Telemetry) • New York, NY	June 2025 – August 2025
- Developed an end-to-end framework to backfill historical hardware metrics for over 175,500+ customer clusters and 1B metric documents, enabling migration to a dedicated observability platform - Implemented checkpointing and retry logic to reliably track progress and prevent data duplication across distributed jobs - Expanded the metric ingestion API with a synchronous bulk endpoint, reducing per-request overhead and improving Prometheus-based observability	
Research Assistant @ Brown School of Public Health • Providence, RI	August 2024 – December 2024
- Developed a scalable discretization algorithm for data preprocessing, improving accuracy by 27% for risk score models for detecting tuberculosis treatment adherence among Peruvian adolescents - Implemented randomized rounding in model initialization to enhance warm-start efficiency, reducing training time by 15%	
Software Engineer Intern @ MongoDB (.NET/C# Driver) • New York, NY	June 2024 – August 2024
- Designed and implemented a system migrating query execution from client to server, improving performance by avoiding client-side memory limitations - Enhanced MongoDB's .NET driver OData adapter using metaprogramming to support advanced filter queries	

TECHNICAL PROJECTS

Complete projects available on [my website](#).

Parallelism in Training (PyTorch)	January – February 2025
Implementations of DDP, FSDP, model parallelism, and pipeline parallelism from scratch using low-level PyTorch collectives (all-reduce, all-gather, send/recv) achieving near-linear throughput gains	
Text2ClasSQL (PyTorch)	October 2025 – December 2025
Classification-based text-to-SQL system with schema-aware encoding and multi-head prediction over query clauses.	
NeurANIL (PyTorch)	February 2025 – May 2025
Deep learning model using meta-learning architectures to improve neural decoding on brain signals, outperforming benchmarked models (MLP, LSTM, Transformer, CRNN, Gaussian Naive Bayes) on 78% of test data.	

TECHNICAL TOOLS & SKILLS

- Programming Languages:** Python, Java, Go, R, C#, OCaml, C++, TypeScript
- Technologies:** CUDA, Spark, Kubernetes, AWS, Docker, PyTorch, TensorFlow, scikit-learn
- Global-minded:** traveled to 40+ countries, lived in 7 countries

ACCOMPLISHMENTS & AWARDS

NCAA Division I Women's Rugby Athlete, Brown University	September 2021 – May 2025
Scholastic All-American (2023, 2024), 7's National Champion (2023, 2024), Strength & Conditioning Athlete of the Year (2024)	
Distinguished Senior Prize in Computer Science, Brown University	May 2025