

NELLIE CORDOVA



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[/in/cordovank](https://in/cordovank)



cordovank.github.io

SUMMARY

Software Engineer transitioning to ML; hands-on DL/NLP/RL and production experience on microservices payments. Strong in experiment design, hyperparameter tuning, and metrics-driven iteration; systems & networking exposure (gRPC/Protobuf); delivered features end-to-end.

SKILLS

Python (primary), Java, SQL · PyTorch, scikit-learn, NumPy/pandas, Matplotlib · Transformers, CNNs, RNN/LSTM · NLTK/spaCy · Tokenization/embeddings · Text classification & Language Modeling · Attention/memory nets · Experiment design, hyperparameter tuning · Docker · CI/CD (Jenkins, Maven) · Testing · Git/Jupyter · IntelliJ, JIRA, Bitbucket, Confluence · English & Spanish (bilingual)

EDUCATION

M.S., Computer Science (Machine Learning) | *Georgia Institute of Technology* | Atlanta, GA

09/22 - Present

Relevant Coursework: Natural Language Processing, Deep Learning, Reinforcement Learning, Network Science, Human-Computer Interaction.

B.A., Mathematics (Minor: Computer Science) | *William Paterson University* | Wayne, NJ

09/16 - 05/19

Honors: *Magna Cum Laude* | *Pi Mu Epsilon (National Mathematics Honor Society)*

Relevant Coursework: Data Warehouse & Data Mining, Database Management System, Business Analytics, Applied Regression Analysis, Statistical Computing, Cloud Computing.

PROFESSIONAL EXPERIENCE

Software Engineer | *JPMorgan Chase & Co.* | Tampa, FL

Project: Real-Time Payments Platform

06/19 - 10/21

- Contributed across the SDLC (requirements to deployments) for Java-based payment microservices and to production readiness; implemented monitoring/alerting (Geneos); authored runbooks; partnered with platform teams; presented services to global production management groups.
- Built and maintained test automation (JUnit, Cucumber); participated in code reviews and upheld CI quality gates (tests, static analysis, coverage) to keep merges green; executed functional/perf tests (Postman, SOAP UI, and JMeter); collected release evidence (test/coverage reports, change tickets, approvals) to secure production sign-off.
- Led/participated in agile sprint planning and backlog refinement; authored technical/architecture docs; coordinated across time zones.

Project: Salesforce

09/19 - 06/20

- Delivered data collection/reporting features (Visualforce, Flows) for a social-impact org; gathered requirements; designed, implemented, and documented changes; enhanced a custom Visualforce UI and automated survey creation.

ML Research Assistant | *Computer Science Department* | *William Paterson University* | Wayne, NJ

03/18 - 05/19

- Applied exploratory data analysis and knowledge discovery to augment prior hypothesis-driven work on teen tanning behaviors; implemented and evaluated predictive models (KNN, Logistic Regression, clustering) in Python/R; presented insights to faculty and student.

PROJECTS

- Plate2Recipe – Multimodal CV + NLP:** Co-developed end-to-end system mapping food images into structured recipes using PyTorch and Hugging Face Transformers/Datasets: ViT for ingredient recognition + GPT-2/LSTM for instruction generation; performed large-scale data cleaning/augmentation and evaluated output coherence. [<https://github.com/cordovank/Plate2Recipe>]
- Memory-augmented QA System:** KV-MemNet with batched attention over a structured KB implemented in PyTorch with NumPy/pandas; attention/memory-network design, synthetic templated data + distractor generation, and optimized retrieval/sub-selection, improving retrieval precision and end-to-end answer accuracy on compositional questions. [<https://github.com/cordovank/GT-NLP/tree/main/5-KVMemNet-QA>]
- Notification System Redesign:** User-researched and user-tested interactive prototype to redesign notification workflows for engagement and usability; applied HCI/UCD, survey design, prototyping, and usability testing to iterate and improve flows.