Sergei Nevedomski

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Summary

Principal Software Engineer with a strong focus on Machine Learning, Data Engineering, and large-scale system design. Known for driving technical strategy, mentoring teams, and delivering high-impact solutions that bridge data science and engineering. Skilled in building scalable ML infrastructure, automating analytics workflows, and guiding cross-functional initiatives from prototype to production. Deep expertise in Python, Spark and cloud platforms. Passionate about solving complex problems with lasting business value and fostering innovation across teams.

TECHNICAL SKILLS

- Languages and Frameworks: Python, Spark, Git, SQL, AWS
- Machine Learning and Statistics Skills: LLMs, Neural Networks, NLP, Computer Vision, Tree models (XGboost), GLM models, Statistics, Time Series analysis, Linear and Matrix algebra
- Web development: Flutter, React, Tailwind CSS, Headless UI, FastAPI
- Worked with Languages and Frameworks: Java, C++, noSQL, Django, R

WORK EXPERIENCE

PNC Bank Feb 2020 - Present

Principal Software Engineer

Pittsburgh, PA

Data Engineering / Machine Learning / Modeling

- Built a production-ready LLM-based PII detection tool using NLP techniques and transformer models, enabling secure and compliant migration of sensitive PNC datasets to AWS while meeting regulatory and internal data governance standards.
- Modernized legacy SAS models by migrating them to Python and Spark, resulting in a 60% increase in processing efficiency and seamless integration with AWS data platform.
- Led a cross-functional team spanning Data Science and Engineering, driving the adoption of best practices in model development, reproducibility, and version control using Git, Spark, and Hadoop across enterprise-wide modeling initiatives.
- Designed and prototyped a centralized model monitoring framework leveraging Python and custom performance metrics, standardizing model health checks and enabling consistent performance tracking across the BSAM portfolio.
- Developed modular internal frameworks—including a Python Analytical & Reporting Framework, a ThoughtSpot Data Preprocessing Framework, and a Controls Framework—streamlining development cycles and boosting engineering productivity by 40%.
- Collaborated with stakeholders to identify high-impact ML opportunities in emerging business units, conducting technical assessments that informed long-term AI strategy and accelerated innovation at the organizational level.

PNC Bank Jan 2019 - Feb 2020

Sr. Software Engineer

Pittsburgh, PA

Data Engineering / Machine Learning / Modeling

- Engineered and deployed scalable, production-grade data pipelines using Python, Spark, and SQL to validate, transform, and aggregate ML model outputs—enhancing data integrity and reducing pipeline execution time by 80%.
- Migrated complex statistical and machine learning models from SAS to Python and Spark, utilizing libraries such as pandas, numpy, scikit-learn and XGBoost to improve deployment velocity, reproducibility, and integration with modern data platforms.
- Led and mentored a team of 6 Python developers in an Agile environment, establishing best practices in version control (Git), code reviews, and modular design—resulting in a 30% reduction in technical debt and consistently on-time delivery across projects.

PNC Bank Apr 2018 - Dec 2018

Software Engineer

Pittsburgh, PA

Data Engineering / Machine Learning / Modeling

- Designed and implemented scalable data pipelines using Python, Spark, and SQL to validate, transform, and aggregate ML model outputs in production—resulting in a 80% improvement in time efficiency and a 50% increase in processing efficiency.
- Automated business-critical workflows by applying statistical modeling, tree-based algorithms (e.g., XGBoost), and time series analysis, reducing manual processes by 60% and accelerating decision-making cycles across departments.
- Conducted feasibility studies and exploratory data analyses leveraging NLP and GLM models to evaluate machine learning applications for emerging business units, driving data-driven innovation and enabling strategic adoption of AI solutions.
- Collaborated cross-functionally with data scientists and engineers to optimize model deployment and monitoring using Python, FastAPI, and custom drift detection logic—reducing model latency by 40% and improving anomaly detection in production systems.

Distributor service Inc.

Data Scientist

Oct 2016 - Apr 2018

Pittsburgh, PA

- Developed dashboards for executive management using QlikView, SQL, and Advanced Excel, enhancing decision-making processes
- Developed a pricing analysis and management platform using Python, Django, SQL, and CyberQuery, streamlining the review, addition, and maintenance of company pricing by customer and product category levels
- Managed data collection from various sources such as ERP, CRM, WMS, and Analytics platforms, ensuring data accuracy and availability for analysis
- Interpreted data from primary and secondary sources using statistical techniques and provided ongoing reports, enhancing data-driven decision-making (pandas, scikit-learn)

• Performed daily data queries and prepared reports on daily, weekly, monthly, and quarterly basis, improving reporting efficiency and accuracy (Python, SQL, Advanced Excel)

Atritrans, Belsotra, Donado

Co-founder, CEO, Head of Department

Jul 2008 - Nov 2015 Minsk, Belarus

• Directed global operations in international freight forwarding, leveraging strategic leadership and operational expertise to streamline logistics, optimize performance, and elevate client experience across diverse markets.

EDUCATION

Belarussian State University Master's degree, Economics Sep 2003 - Jun 2008

Belarus, Minsk

• **GPA:** 3.8/4.0