SEAN W. EVANS

+1 (516) 330-2517
Website

E-Mail
Github
Linked In

SUMMARY

Systems-level engineer with 6+ years building end-to-end ML, vision, and document-analysis pipelines, with experience in C/C++/CUDA, runtime systems, Postgres tooling, and mathematical modeling. Specializes in rapid prototyping across abstraction layers (theory → GPU → product), workflow automation, and shipping high-reliability systems at scale.

SKILLS

Languages: Python, C, C++, CUDA, C#, Perl, SQL (Postgres/T-SQL)

Machine Learning: PyTorch, TensorFlow, Detectron2, CNN/RNN OCR, SpaCy

Computer Vision: OpenCV, document segmentation, structural analysis

Systems & Performance: Linux, Git, Make/CMake, multiprocessing, GPU kernels

Data & SDKs: PostgreSQL, XML (DOM/SAX), PDF libraries, MS Office SDK, Adobe SDK

Scientific & Typesetting: LaTeX, MathJax, numerical modeling, geometry

EXPERIENCE

Data Conversion Laboratory — **Remote**
Machine Learning Engineer — *May 2021 – Feb 2025*

- Designed a Detectron2-based document segmentation pipeline reducing manual classification by 50%.
- Built a CNN–RNN LaTeX OCR system with near state-of-the-art accuracy.
- Automated document styling using NLP + MS Office SDK, reducing a 40-hour workflow to 2 hours.
- Implemented an OpenCV-based checkbox detector achieving >96% accuracy across thousands of formats.
- Developed high-throughput pipelines capable of millions of pages per week.

Data Conversion Laboratory — **Remote**
Software Engineer — *Sep 2020 – May 2021*

- Built PDF cleaning and OCR preprocessing system capable of 100k+ pages per week per server.
- Automated LaTeX and JATS XML correction workflow replacing a full-time manual process.
- Developed .docx → XML converter using MS Office InterOp.
- Delivered reliable production tooling using TDD, Agile, and robust XML parsing.

Data Conversion Laboratory — **Queens, NY**
Lead Technology Analyst — *Sep 2019 – Sep 2020*

- Led workflow optimization initiatives, mentored engineers, and coordinated with stakeholders.

Data Conversion Laboratory — **Queens, NY**
Technology Analyst — *May 2018 – Sep 2019*

- Developed custom data-conversion tools for large-scale migrations.
- Maintained and improved high-volume pipelines for enterprise clients.

EDUCATION

- **Long Island University**
  Bachelor of Science in Mathematics — *2003–2026*