

ARCHIBALD PENNINGTON

Deep Learning Specialist

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☎ (123) 456-7890

📍 Buffalo, NY

🌐 [LinkedIn](#)

WORK EXPERIENCE

Deep Learning Specialist

Moog

📅 2021 - current 📍 Buffalo, NY

- Created and trained an RNN-based model to maximize the fuel consumption in aerospace propulsion systems, decreasing 12% of fuel costs during test flights.
- Developed an image recognition system that automated the inspection of electronic components which helped locate defects 37% more than the manual process.
- Initiated a DCGAN project to generate high-fidelity textures for virtual aerospace components, reducing the need for physical samples by 46%.
- Innovated with Google AutoML to refine acoustic signal processing in Moog's testing facilities, improving the detection of ultrasonic frequencies by 79.4%.

Deep Learning Researcher

M&T Bank

📅 2019 - 2021 📍 Buffalo, NY

- Designed and implemented a real-time deep learning system for voice biometrics, lowering the incidents of identity fraud by 13%.
- Introduced a new approach to upgrade the bank's network logistics with TensorFlow Federated, leading to an 11% shrinkage in cash transportation costs.
- Optimized pre-existing predictive maintenance models for bank equipment, saving \$243k annually in maintenance costs.
- Devised an instance segmentation model with Mask R-CNN for ATM surveillance, detecting potential skimming devices with 94.6% precision.

Research Assistant

Henry Schein

📅 2017 - 2019 📍 Melville, NY

- Built a grouping system using BERT to sort and prioritize incoming customer inquiries, cutting the average resolution time by 42%.
- Oversaw experimental protocols for bio-material testing, resulting in a 21.3% improvement in product safety as per risk assessments.
- Leveraged Qiskit to analyze genetic data for personalizing dental care products which enhanced the prediction process by 17% for patient-specific treatments.
- Used a GPT-3-driven algorithm for summarizing clinical study reports, reducing report generation time from 6 hours to 48 minutes per report.

EDUCATION

Bachelor of Science

Computer Science

Cornell University

📅 2012 - 2016

📍 Ithaca, NY

SKILLS

- RNN
- BERT
- DCGAN
- GPT-3
- Mask R-CNN
- Google AutoML
- Qiskit
- TensorFlow Federated