Storm Schutte

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Results-driven Machine Learning Engineer, full-stack developer, and technology leader with 16+ years of experience architecting end-to-end software solutions and AI-powered systems. Hold a Master's degree in Artificial Intelligence (Machine & Deep Learning) with deep expertise in building complete applications, from backend, frontend, and database design to cloud infrastructure, DevOps, and advanced AI/ML integrations.

Proven track record of delivering scalable, production-ready platforms leveraging deep learning, NLP, RAG pipelines, LLM agents, and vector databases. Skilled in cloud architecture (AWS/GCP/Azure), intelligent automation, system optimization, and cross-functional technical leadership. Recognized for strong problem-solving capabilities, rapid adaptation, and the ability to align engineering initiatives with business objectives to drive product innovation and operational efficiency.

PUBLICATIONS

- Deep Segmentation Techniques for Breast Cancer Diagnosis   2024
- Big Data Tools, Deep Learning & 3D Objects in the Metaverse   2023
- Real-time IoT security framework for detecting a person with a weapon using Raspberry Pi, Google Vertex AI, and AWS   2025
- Optimizing Content for Educational Curricula with Large Language Models (LLMs)   2025
- K-Pop and Education Migration to Korea in the Digitalised COVID-19 Era   2022

EMPLOYMENT HISTORY

Chief Technology Officer, G Man Auto Parts Corp 2025

Lead the company's technology strategy and deep-tech integration efforts, overseeing AI/ML initiatives, cloud architecture, and SaaS product development. Drive innovation in ML, DL, RAG systems, LLM agents, and Vector DB–powered search while guiding engineering teams and aligning technical direction with business goals in the e-commerce domain.

Data Scientist / Senior Dev. (Project), Office Harbour Pvt. Ltd 2024 — 2025

I architected, built and oversaw the entire application end-to-end, including backend, frontend, machine learning systems, and AI-driven RAG integrations. The platform is fully automated using advanced AI pipelines that streamline operations across email processing, data validation, staff management, and decision-support workflows. The system is designed to be self-sufficient, leveraging intelligent cloud-native infrastructure that significantly reduces operational costs while enabling massive scalability. It incorporates semantic search, vector indexing, and custom compression strategies to deliver high-performance AI capabilities. Additionally, I integrated Cloudflare-based global caching and edge optimizations, achieving near-instant worldwide response times and 99% uptime reliability.

Data Scientist (Consultant), Silver Cloud B.V. 2022 — 2025

Led the development and deployment of machine learning solutions at Silver Cloud B.V, with a strong focus on Natural Language Processing (NLP) using frameworks such as TensorFlow, PyTorch, and spaCy. Integrated large-scale language models (LLMs) to enhance product capabilities, driving an increase in model accuracy and leading to new product offerings. Architected and managed cloud infrastructure (AWS/GCP), achieving high availability and scalability for AI services. Provided strategic guidance on backend and frontend architecture, ensuring seamless system integration and boosting development efficiency. Collaborated cross-functionally to align AI initiatives with overall business strategy, positioning Silver Cloud as a competitive player in the AI sector.

Co-founder, SableApps Pvt. Ltd 2017 — 2022

Founded and led SableApps Pty (Ltd), delivering over 8 major and multiple minor Python/Django-based applications for a diverse client base across healthcare, education, and finance sectors. Spearheaded the development of an intelligent adaptive testing platform for hospital nurses, funded by the Korean Government, enhancing assessment accuracy and workforce management. Built a comprehensive school management system integrating attendance, financial tracking, class management, and payment solutions, improving administrative efficiency for educational institutions. Developed a trading credibility platform for a Dutch firm, leveraging stock market APIs and peer evaluations to enhance investment decision-making. Directed all aspects of product

development, team leadership, and client consulting, establishing a strong reputation for delivering scalable, user-centric software solutions.

Developer Team Leader, CornWare Pvt. Ltd 2018 — 2019

Led the development of a quality control application for multi-business deployment, leveraging Azure Cloud, Django, and Microsoft SQL Database to ensure robust scalability and security. Managed a team of four developers to deliver a hospital staff management platform, introducing a smart testing system AI oriented. Architected real-time tracking and quality assurance across departments, enhancing overall operational transparency and resource allocation.

International Manager, Sunae 2014 — 2017

I led a diverse, globally distributed team at Sunae, with members based across the U.S.A, Australia, China, Brazil, South Africa, Russia, and Japan. My primary focus was on strengthening IT infrastructure and connectivity across all regions, ensuring seamless communication between international offices and senior management. In addition, I directed IT operations for our global centers, overseeing the conceptualization, design, and deployment of enterprise-level applications and network systems that supported cross-border collaboration and business continuity.

IT Manager, Swirthair Pvt. Ltd 2007 — 2011

At Switchair (Pty) Ltd, I progressively ascended through the ranks, ultimately joining the corporate sales team and earning a position as one of the company's directors. Additionally, I played a pivotal role within the IT department. My contributions were instrumental in securing and overseeing corporate contracts with prestigious clients including Anglo American, BTX, Longmin, and Amplats Platinum Mines. Within these collaborations, we were responsible for the design, management, and establishment of state-of-the-art server rooms (data centers).

EDUCATION

- Woosong University, Masters in AI, Machine Learning Engineer (GPA 4.2) 2024
- Sol International University, Undergrad Global Media & Programming (GPA 4.3) 2018
- Hannam University, Certificate in Korean Culture 2014
- Jeju National University, Certificate in Korean Language 2012
- Private German School, High School Matric 2007

CERTIFICATION

Certifications & Coursework

AWS SageMaker Practical, Machine Learning, Deep Learning for Image Segmentation using TensorFlow 2, NLP with Python, Deep Python Studies, Advanced Algorithms, Big Data & Hadoop, Hands-On Hadoop: Tame Your Big Data, The Ultimate Hands-On Hadoop, Advanced Software & Languages, Modern Python Bootcamp, JavaScript Basics to Advanced (2022), Python API for Trading, REST API with Python, Mastering AJAX, Complete React Developer (Redux, Hooks, GraphQL), Mastering Django Web Development, Python Django Bootcamp, Search Engine Optimization (SEO) Compliant, Learn SQL Using PostgreSQL: From Zero to Hero, PostgreSQL Complete, IoT Arduino & Python, Raspberry Pi Tips Tricks and Hacks (2020), Introduction to VR with Unity

SKILLS

AI & Machine Learning: Deep Learning (Neural Networks, CNNs, RNNs), Natural Language Processing (NLP), Semantic Search, RAG Pipelines, LLM Agents, Computer Vision (CV), Visual Computing, Machine Learning Algorithms (Classification, Regression, Clustering), MLOps, Data Analytics.

Programming Languages: Python, JavaScript, R, Worked with (C#, Java, PHP)

Frameworks & Libraries: Linux, Ubuntu Server, TensorFlow, PyTorch, Keras, scikit-learn, Pandas, NumPy, spaCy, YOLO, Transformers, Django, FastAPI, Flask, React (Frontend), Hadoop, Apache Spark, IoT (Arduino, RaspberryPi, OrangePi).

Cloud & Infrastructure: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure Docker, Git, Linux Server, Microsoft Server

Databases: Vector Databases (Weaviate, FAISS), PostgreSQL, MySQL, MongoDB, Redis, Neo4j

Other Technical Competencies: Semantic Search & Vector Indexing, Full-Stack Development (Backend & Frontend), Web Scraping & Data Pipelines

Project Management: Agile Methodologies, Embedded & Cross-Functional Teams