

Nick Baguley

Applied AI Research and Engineering Leader

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AI CTO, inventor and product leader across financial data, enterprise agents and scientific R&D. Former DeepSee CTO and Mastercard/Finicity VP combining technical strategy, team leadership and hands-on architecture to turn ambiguous problems into testable systems.

Professional Experience

Baguley LLC

Founder | 2024 - Present

- Build AI-assisted products and platforms: BadLabels.com for AI-product discovery, comparison and agent workflows; Externa.ai for executive operations, strategy and due-diligence tools.
- CampusAgents.ai: evidence-governed funding and research workflows, auditable grant packages, and experiment-selection and safety prototypes.
- DF Orbit: web and native iOS/Android tools for learning, coaching and studio operations.
- DF Orbit Engineering: synthetic source-linked engineering review, component checks and controlled delivery, built on Proofline's durable execution core.
- Avenews.com: platform infrastructure for AI-assisted local discovery and publisher/merchant workflows.

DeepSee.ai

Chief Technology Officer | January 2025 - June 2026

- Led engineering and architecture for financial-services agentic AI: multi-agent orchestration, knowledge-graph augmentation, reusable workflows, human approval and observability.
- Helped raise capital through investor relations and technical diligence; DeepSee announced an \$18.6M Series A backed by BankTech Ventures, Broadridge, EJV Ventures and Raido Capital.
- Supported strategic partner engagements with Broadridge and Altaira. Broadridge reported DeepSee deployment across BPO operations serving more than 60 clients.
- Company collaborations included Accenture/ServiceNow work orchestration and Microsoft for Startups Pegasus selection (2025).
- Company recognition during my tenure: ICBA ThinkTECH Most Valuable Participant (2025); FTF News Best Cutting-Edge Solution (2026).

Mastercard / Finicity

VP, Global Data Strategy and Data Science Products | July 2022 - October 2024

VP, Product, Consumer Attributes and Analytics | August 2021 - July 2022

VP, Data Science | May 2019 - August 2021

- Led nearly 200 across data science, product, engineering, data engineering, and DevOps/MLOps; directed global Open Banking and Open Finance data-science products and services.
- Grew the Boost team from one teammate to under 30. Mastercard reports 50M+ aggregate credit-score points added through Finicity-identified tradestreams, a shared program result.
- Led income/asset verification development for Fannie Mae Day 1 Certainty and Freddie Mac Loan Advisor underwriting; built payment, identity, and personal financial management services.
- Advanced applied research in consented identity, financial-data interpretation, and payment decisioning; named co-inventor on granted patents and published applications.

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AlphaTech Research Corp

Co-founder, President and Director | September 2016 - Present

Direct research and commercialization across advanced energy, molten-salt systems and materials processing; designed a proposed thermal-transport study with baselines, holdouts and uncertainty checks.

Earlier Leadership

Wrench.ai / Pan Dimensional, Chief Data Officer (October 2017 - February 2019); Front Analytics, CEO and Chief Data Officer (July 2018 - March 2019); Evolve STEAM, President (2016 - 2019).

Selected Applied Research and Engineering

Governed Scientific Experimentation | Campus Agents

- Implemented Gaussian-process experiment selection and a Rust safety kernel with permission and determinism checks. Local research prototypes connect campaign planning to reproducible experiments.

Engineering Review and Delivery | DF Orbit Engineering

- Built a synthetic engineering platform connecting CAD, documents, media and 3D components to typed actions/checks, scoped grants, PostgreSQL execution/recovery and separate engineering and information-sharing decisions.

Outcome and Capability Infrastructure | Per Se, Joules

- Developed Per Se's vendor-neutral Rust contracts, approval-gated tasks and proof lineage, and Joules' explainable ranking/replay. Fidelith adds artifact-preservation checks; Liminal Accord adds synthetic rights and commerce workflows.

Multimodal Observation and Review | InferObservation, DanceOrbit

- Built experimental source-linked multimodal evaluation with pinned models and native timestamps. A YOLO/ByteTrack pass covered 721 native frames and 1,504 detections.
- Compared detection, segmentation, pose and vision-language recipes on one rights-cleared still, and evaluated generated Hailuo H3/Seedance motion-transfer candidates.

Selected Inventions

- Named co-inventor: Consented identity as a service, US 12,045,819 B2 (2024); Trust root system for verification of user consents, US 12,400,229 B2 (2025).
- Named co-inventor: Computationally efficient, high-dimensionality digital interaction optimization, published application US 2026/0105426 A1 (2026).

Community and Education

Independent Trustee, Neumont University (2023 - Present); 2024 commencement speaker. Organizer and leader in Big Data Utah, Utah Hadoop Users Group, Utah Geek Events, and Prompt Pivot Pitch; participant in National Data Science Organizers and Big Data Hub initiatives. University of Utah: formal study.

Technical Focus

Python, NumPy, SQL, TypeScript, Rust; Gaussian-process baselines and experimental design; LLM orchestration and knowledge-graph augmentation; PyTorch-based inference workflows; PostgreSQL; FastAPI and HTTP/MCP interfaces; Azure; evaluation harnesses, provenance, permission boundaries, and independent artifact verification.