NATALIE DELLAMARIA

ndellamaria@mba2026.hbs.edu
+1 (815) 451-2285
LinkedIn | Website

education

2024 - 2026 **HARVARD BUSINESS SCHOOL**   **CAMBRIDGE, MA**
Candidate for Master of Business Administration, May 2026. AI Club Co-President.

2016 - 2020 **CLEMSON UNIVERSITY**   **CLEMSON, SC**
Bachelor of Science in Computer Science. Graduated Summa Cum Laude.
Clemson University National Scholar.

experience

summer 2025 **DISTYL AI**   **NEW YORK, NY**
AI Platform Engineering Intern
- Built AI-native tools for forward deployed engineering teams including automated change summaries, extensible validation frameworks, and file-upload support for chat agents.
- Worked with teams across the company to improve reliability and scalability of AI platform features.

2020 - 2024 **TESLA**   **PALO ALTO, CA**
Staff Distributed Systems Engineer (2024), **Technical Lead** (2023-2024)
Senior Distributed Systems Engineer (2021-2024) | **Distributed Systems Engineer** (2020-2021)

Product Development and Strategy
- Designed and implemented scalable, secure backend cloud services supporting bi-directional communication with millions of IoT devices. Enabled seamless energy integration and improved customer outcomes.
- Led the vehicle firmware development for Charge on Solar and Tesla Electric Home Charging Plan, aligning cross-functional teams to deliver secure and innovative customer-facing features.
- Built a high-throughput data pipeline delivering weather forecasts to 300,000+ devices, optimizing battery performance and reducing customer electricity costs.
- Expanded the Virtual Power Plant platform to meet diverse customer aggregation requirements, enhancing its scalability and usability for stakeholders.

Customer Engagement and Stakeholder Collaboration
- Partnered with Product Management, Product Security, and cross-functional teams to design and deliver features like Storm Watch and Virtual Power Plants, improving energy independence.
- Presented the Charge on Solar MVP to the Senior Vice President. Secured project approval and oversaw the feature's deployment.
- Acted as a liaison with service and analytics teams, developing pipelines that enabled self-serve data queries, reducing engineering overhead by two hours weekly.

Cross-Functional Leadership and Communication
- Facilitated discussions with stakeholders to ensure alignment on GDPR compliance. Documented trade-offs and progress in weekly director-level check-ins.
- Presented technical solutions, including weather forecast optimizations, to company-wide audiences of 500+ employees, demonstrating customer impact.
- Mentored two interns in building a server events pipeline, fostering technical and professional growth.

Problem Solving and Incident Management
- Investigated and resolved a critical incident destabilizing the Kauai grid, presenting the root cause and solutions to senior leadership while managing follow-up actions.
- Supported critical Tesla Energy applications through 24/7 on-call rotation, ensuring reliable operations for services such as grid-scale battery market participation.

personal projects Analog Image Classifier - Developed a transfer learning model based on ResNet50 to classify analog photos. Created and annotated a custom dataset for training and fine-tuned the model using TensorFlow and CNNs, with performance tracking via Weights & Biases.

technical skills Python, Scala, Akka, Kafka, Kubernetes, Cloud Computing, Distributed Systems, API Development, gRPC, Protobuf, Networking, Data Streaming Platforms, AWS, IoT, IoT Security, Backend Architecture, Databases, MLOps, AI Developer Tools: Claude Code, Cursor, OpenAI Agents SDK, Traceloop

presentations HBS AI Club (2024) - "Decoding Deepfakes: The Role of GANs in Synthetic Video Creation" (Presenter)
QCon San Francisco, CA (2022) - "Tesla's Virtual Power Plant" (Presenter)