

**NATALIE DELLAMARIA**  
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## education

2024 - 2026

### **HARVARD BUSINESS SCHOOL**

**CAMBRIDGE, MA**

Candidate for Master of Business Administration, May 2026. AI Club Director of Technical Learning.  
Member of: Tech Club, Entrepreneurship Club, Energy & Environment Club

2016 - 2020

### **CLEMSON UNIVERSITY**

**CLEMSON, SC**

Bachelor of Science in Computer Science. Graduated Summa Cum Laude. President's List (4.0/4.0 GPA) - all semesters. Honors College. Clemson University Hackathon Founding Member & Co-President

- Clemson University National Scholar - Selected for Clemson's highest merit scholarship program, focused on leadership, academic excellence, and global engagement

## experience

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)

Developed scalable, reliable and secure backend cloud services with bi-directional communication to millions of IoT devices to create an exceptional customer experience with Tesla's Energy Ecosystem

#### ***Product Strategy, Product Development & Software Development***

- Built a pipeline for cloud applications to emit high-volume, event-driven data to Tesla's data warehouse to enable service and data analytics teams to do self-serve queries and analysis, saving two engineering hours per week
- Designed and implemented high-throughput data pipeline to distribute weather forecasts to 300,000+ devices enabling optimized battery performance and customer electricity cost savings
- Developed charging state machine service to ensure secure communications for [Charge on Solar](#) and [Tesla Electric Home Charging Plan](#) as primary vehicle firmware engineer
- Designed, implemented and maintained extensible backend APIs to support customer facing features such as [Storm Watch](#) and [Virtual Power Plants](#)
- Expanded virtual power plant platform to support a diverse set of aggregation patterns and requirements

#### ***Troubleshooting & Problem Solving***

- Triaged incident where Kauai grid was destabilized. Discovered root cause, documented case and presented solutions to Senior Director. Owned follow-up communication and action items
- Participated in 24/7 on-call team responsible for 50+ microservices supporting critical Tesla Energy applications such as market participation obligations for grid-scale batteries

#### ***Cross-Functional Leadership, Program Management & Stakeholder Engagement***

- Facilitated cross-team discussions across Product Management, Product Security, Vehicle Firmware, Energy Cloud Software and Energy Device Software to design and ship [Charge on Solar](#) feature
- Presented Charge on Solar cloud-based MVP to Senior Vice President to get approval to advance to next stage of project, and ultimately ship the feature
- Led product roadmap planning and served as lead engineer for regionalization of six services for GDPR compliance; required extensive documentation of stakeholders, allowable downtime, cost implications, trade-offs with increased complexity and director-level weekly check-ins

#### ***Communication, Project Leadership & Mentorship***

- Presented weather forecasting distribution optimizations at all-hands in front of 500+ employees
- Evaluated and communicated weekly priorities to management; adjusted resources as needed
- Presented on architectures and technical concepts to 30+ engineers during weekly technical meetings
- Mentored two interns on building server events pipeline

## technical skills

Scala, Akka, Kafka, Kubernetes, Python, Cloud Computing, Distributed Systems, API Development, gRPC, Protobuf, Networking, Data Streaming Platforms, AWS, IoT, IoT Security, Backend Architecture, Databases, Deep Learning Specialization – *Coursera, taught by Andrew Ng (present)*

## conferences

QCon San Francisco, CA (2022) - ["Tesla's Virtual Power Plant"](#) (Presenter)

S4x22 Miami, FL (2022) – Cybersecurity for Industrial Control Systems and Operational Technology (Attendee)

## community

Clemson Computing Industry Advisory Board Member (since 2021)

Women in Tesla Board Member (2020-2023)