Dr. Peet Cremer

* 27/01/1988

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AI Technical Leader with deep expertise in machine learning theory and enterprise AI strategy. Combines Statistical Physics foundation with proven experience scaling engineering teams of 18+ developers and architecting production AI systems. Currently driving enterprise adoption of cutting-edge AI development tools across 100+ engineers while maintaining hands-on technical expertise. Seeking technical leadership roles to guide organizations through AI transformation.

🏆 KEY TECHNICAL ACHIEVEMENTS

🏆 Led enterprise adoption of advanced AI development tools (Cursor, Gemini Code Assist) across 100+ developers with reported significant productivity gains

🏆 Pioneered application of computer vision algorithms to automotive radar perception, resulting in 7+ patents

🏆 Scaled engineering organization from 5 to 18 developers with only 2 customer-impacting incidents over 2 years

🏆 Architected production ML systems for industrial knowledge graphs serving enterprise-scale data platforms

🏆 7 peer-reviewed publications in Statistical Physics with direct applications to modern ML optimization

💼 WORK EXPERIENCE

Principal Engineer – Atlas AI   🏢 COGNITE (Oslo, Norway)   📅 02/2025 - today

Strategic Role Transition: Moved from engineering management to hands-on technical leadership to drive AI innovation during this pivotal transformation period. Leading technical strategy for AI evaluation frameworks and enterprise AI adoption.

- **Enterprise AI Strategy**: Architected organization-wide adoption of cutting-edge AI development tools (Cursor, Gemini Code Assist), expanding usage across 100+ engineers with teams reporting weeks-to-days productivity improvements
- **AI Evaluation Innovation**: Designing comprehensive evaluation frameworks for industrial AI agents and NLP tools interfacing with Cognite's data platform
- **LLM Technical Leadership**: Led benchmarking of state-of-the-art models (Anthropic, OpenAI, Google, DeepSeek) for industrial knowledge graph applications, directly informing Atlas AI architecture decisions
- **Cross-functional Collaboration**: Coordinated with Legal, Security, and Procurement teams to ensure compliant, scalable AI implementation across engineering organization

Recognized by CEO Girish Rishi for contributions to AI tooling strategy in company-wide communications and LinkedIn posts.

Senior Director of Engineering   🏢 COGNITE (Oslo, Norway)   📅 02/2024 - 2/2025

Strategic engineering leadership role combining organizational growth with AI initiative development. Gained executive perspective on enterprise AI transformation while maintaining technical involvement.

- **Strategic Expansion**: Designed and executed hiring strategy for Cognite's India Center of Excellence, establishing staffing plans and engineering operations for 20+ roles (all successfully filled)
- **Engineering Leadership**: Managed 10-15 developers across data integration, connectivity, and AI initiatives during critical company scaling phase
- **Product Strategy**: Collaborated on Contextualization services roadmap, aligning technical architecture with business objectives
- **Technical Architecture**: Provided strategic guidance on data platforms, ML systems, and engineering workflows

Director of Engineering   🏢 COGNITE (Oslo, Norway)   📅 02/2023 - 02/2024

Engineering management role focused on operational excellence and team scaling. Successfully managed rapid growth while maintaining service reliability and team satisfaction.

- **Operational Excellence**: Maintained only 2 customer-impacting incidents across Diagram Parsing, Annotations, and Entity Matching services over 2 years
- **Team Health Leadership**: Transformed struggling team from red-yellow to yellow-green health metrics by implementing support triage processes and reducing stress from direct customer escalations
- **Rapid Scaling**: Successfully grew from 1 team (5 developers) to 3 teams (18 developers) while maintaining delivery commitments
- **Technical Focus**: Led teams specializing in contextualization of industrial data, data-driven troubleshooting applications, and parsing of engineering diagrams

Senior Machine Learning Engineer and Tech Lead   🏢 COGNITE (Oslo, Norway)   📅 08/2021 - 02/2023

Technical leadership role building production ML systems for industrial data contextualization. Combined hands-on development with cross-functional team leadership.

- Led cross-functional team of 5 software/ML engineers implementing intelligent algorithms for industrial knowledge graph construction
- Architected and maintained microservices deploying ML algorithms in SaaS environment, including vector similarity services and annotation APIs
- Created data infrastructure capabilities enabling advanced graph queries and industrial reality interactions

AI Lead Developer   🏢 APTIV (Wuppertal, Germany)   📅 12/2020 - 07/2021

Technical innovation leadership in automotive AI applications. Combined deep ML expertise with practical deployment experience.

- Led planning and execution of ML and data infrastructure projects for automotive perception tasks
- Designed AI solutions for automotive applications, guiding software and hardware integration into test vehicles
- Contributed to significant innovation pipeline, resulting in 7 patents and 1 publication focused on novel radar perception algorithms

Software Development Expert   🏢 APTIV (Wuppertal, Germany)   📅 07/2017 - 12/2020

Technical Innovation: Pioneered application of computer vision algorithms to automotive radar data, creating complete ML pipeline from data collection to production deployment.

- **Novel AI Application**: Led breakthrough work applying vision-based perception algorithms to automotive radar, using LiDAR as reference sensor and creating high-quality training datasets
- **Data Platform Leadership**: Built comprehensive data platform for automotive sensor data storage and retrieval, including sophisticated recording tools and labeling pipelines
- **ML Infrastructure**: Established microservice architecture automating AI workflows, from data augmentation to model training and deployment
- **Technical Mentorship**: Supervised Master's thesis on GANs for automotive data style transfer, demonstrating knowledge transfer capabilities

🎓 EDUCATION

Ph.D., Theoretical Soft Matter Physics   🏢 University of Düsseldorf   📅 2013 - 2017

Strategic Foundation for AI Leadership: Deep theoretical understanding of statistical systems, numerical optimization, and mathematical modeling that directly applies to modern ML challenges.

- Dissertation: Mesoscale modeling of magnetic elastomers and gels using finite element methods and density functional theory
- 7 peer-reviewed publications demonstrating research depth and scientific communication skills
- Expertise in numerical simulations and optimization algorithms foundational to current ML work

M.Sc. Physics (GPA: 1.1/4.0[a])   🏢 University of Düsseldorf   📅 2012 - 2013

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[a]German grading system: 1.0 (best) to 4.0 (worst)

Focus: Soft Matter, Statistical Physics. Master thesis on "Emergent states in active systems" published in peer-reviewed journal, demonstrating early research impact and theoretical depth.

B.Sc. Physics (GPA: 1.2/4.0)   🏢 University of Düsseldorf   📅 2008 - 2012

Strong foundation in mathematical modeling and computational physics. Bachelor thesis published as journal article, showing consistent research excellence from early career.

⚗️ TECHNICAL EXPERTISE

Core Programming: Python (Expert, 10+ yrs) • C++ (Expert, 10+ yrs) • Rust (Advanced, 2 yrs) • TypeScript (Advanced, 2 yrs)

AI/ML Specialization: Statistical Physics Theory • PyTorch (2+ yrs) • TensorFlow (2+ yrs) • LangChain/RAG • Vector Databases • Enterprise AI Strategy • Model Evaluation

Data Science Foundation: NumPy/SciPy (Expert) • Scikit-learn (2+ yrs) • Statistical Analysis • Numerical Simulations • Mathematical Modeling

Engineering Leadership: Technical Team Leadership • AI Strategy Implementation • Cross-functional Collaboration • System Architecture • Production ML Systems

Infrastructure & Tools: Docker • Kubernetes • PostgreSQL • MongoDB • Azure • GCP • FastAPI • Microservices • Linux

Languages: German (native) • English (C1) • Norwegian (B2) • French (A2)

◪ TEACHING & KNOWLEDGE SHARING

Lecturer on Artificial Intelligence	🏢 University of Wuppertal, Germany	📅 10/2020 - 04/2021

Designed and delivered university-level AI curriculum demonstrating ability to distill complex ML theory into teachable concepts.
- Created lectures and coding exercises on Numerical Optimization (ADAM algorithms), Evolutionary Algorithms, and Support Vector Machines
- Collaborated with industry colleagues to bridge academic theory with practical applications

Co-Organizer, NorwAI 2022 Hackathon	🏢 NTNU Trondheim, Norway	📅 08/2022 - 10/2022

Led technical organization of Data Science hackathon, including dataset curation, task definition, student supervision, and contribution evaluation.

🏆 RECOGNITION & PATENTS

🏆 7+ patents in automotive AI applications, focusing on novel radar perception algorithms

🏆 Best Poster presentation at 15th German Ferrofluid Workshop, Rostock (2015)

🏆 DAAD scholarship "RISE in North America" for research internship at Yale University (2010)

🏆 Multiple CEO recognitions for AI tooling strategy contributions at Cognite

⚙ TARGET ROLES & KEYWORDS

Seeking: Staff Engineer, Principal Engineer, Technical Lead, AI Architect, Technical Director roles at technology companies with strong engineering culture. Open to hybrid remote positions in Norway or full remote opportunities.

Specializations: AI Strategy, Machine Learning Architecture, Technical Leadership, Engineering Excellence, Enterprise AI Transformation, Industrial AI Applications, Team Scaling, Production ML Systems.