Jens Roland

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Senior Cloud & Data Engineer

RaySearch Laboratories, February 2020-Now

Cloud & Data Platform Engineer for RayIntelligence, a healthcare data analytics SaaS tool aimed at improving cancer treatment capabilities around the world.

Responsibilities include solution architecture and implementation on AWS for data landing, pipelining, and serving; and application development for the products in the RayIntelligence suite: RayData (data lake), RayAnalytics (data pipelines and analytical dashboards), and RayMachine (machine learning).

Lead Data Engineer / Architect

Electrolux, 2018-2020

Big Data Architect & Lead Data Engineer in the Electrolux Global Data Science team, enabling machine learning use cases across every business area in the 50.000 person enterprise.

Led the data engineering team that designed and built the company's data lake and analytical platform for machine learning on the Azure cloud. Helped establish Electrolux' official presence and architecture on AWS, and worked closely with leadership to define the company's global cloud strategy, API strategy, cloud security policy, and more.

Manager, Big Data & Advanced Analytics

Accenture, May 2017-December 2017

Managed teams of Big Data architects, designers and developers at two large enterprise customers within media and telecommunications.

Data Platform Lead, Deputy Head of Development

AudienceProject, Copenhagen, Denmark, 2013-2017

Tech Lead and Chief Architect in a specialized team of software engineers and data scientists in the field of online audience measurement; primarily building AudienceReport, an industry leading Big Data audience measurement SaaS platform; as of early 2017 it was tracking, ingesting, storing and processing >500M events/day with more than a million active panelists across 10 international markets.

- Led AudienceReport to customer success at top global brands like YouTube (Google/Alphabet), Facebook (Meta), Coca-Cola, GroupM, and the official KIA Index of swedish commercial web sites.

- Reduced total cloud costs by 25-50x, saving >$500k/month

- Platform: Completely rebuilt the AudienceReport product including storage, ETL data pipelines and analytics engine spanning a range of technology stacks. This new platform:

- increased report generation speed 200x, from >25 minutes to an average of 6.75 seconds.

- dropped average data freshness from 4 days to 15 minutes.

- reduced costs by more than 80%.

The resulting performance and profitability drove the company to subsequently sell off its market research arm to focus on the AudienceReport product.

Lead Front End Developer

Trendsales, Copenhagen, Denmark, 2011-2013

Lead Front End Developer in a 10-developer team, responsible for performance optimization and the internal Trendsales front end platform.

- Platform: Tomahawk aka 'T2' - a compact high-performance web application framework built from scratch with a custom .NET-to-frontend-component compiler which:

  - removed a critical development bottleneck by greatly reducing the need for frontend developers.

  - drastically improved long term application performance, reliability, and maintainability.

  Launched in 2012, T2 remained in production as Trendsales' core front end framework until 2019.

Lead Front End Developer

QXL Ricardo Denmark, 2009-2011

Lead developer in a three-person front end team in Copenhagen; internal developer evangelist in the Ricardo Group (5 countries, >100M monthly pageviews); lead web performance engineer for all 5 markets.

- Platform: Rebuilt a large legacy JavaScript codebase, achieving vastly improved reliability, maintainability, and performance. Launched 2010, remained in production until November 2019.

- Headed up the Ricardo Group's efforts in Web Performance Optimization, reduced page load times by more than 50%.

Visiting Researcher / Technology Forecaster

Institute For The Future, Palo Alto, CA, 2007

Visiting Researcher, worked on the Tech Horizons and Health Horizons programs, as well as the development of Signals, a Web-based tech foresight platform used by the IFTF and its partners, which includes a number of Fortune 100 companies.

Education / Certifications

2020 - Machine Learning

By **Stanford University** - link to course certificate

2020 - Neural Networks and Deep Learning

By **deeplearning.ai** - link to course certificate

2007 - Bachelor's degree, Computer Science, University of Aarhus

GPA: 9.5 --- Thesis project: *Building a compiler for a subset of Java*

2000 - Matematisk Studentereksamen, Rosborg Amtsgymnasium, Vejle

GPA: 10.0 --- Final paper: *Proving the correctness of RSA*

Technical Skills

Proficiency	Big Data & Cloud	Languages & Frameworks
Specialist	AWS, Data Lake and Lakehouse, Athena/Trino, RDBMS (MySQL, Aurora); NoSQL (DynamoDB, Redis)	Python, JavaScript, HTML, CSS
Experienced	EMR, Hive, columnar (RedShift, Parquet), Glue	Java, C#, PHP, Vue.js, TypeScript, SASS/SCSS
Working knowledge	Modern Data Stack, Datawarehousing, Spark, ElasticSearch, streaming (Flink, Kafka, Kinesis), Machine Learning, Airflow, Databricks, Azure	Scala, Go, Laravel, CodeIgniter, ASP, Pascal, Node.js, Express, Angular, React, Octave, Nim, Julia

Soft Skills

Proficiency	Strategy / Leadership	Methodologies & Tooling
Specialist	Lean, Cloud & Data strategy, Dev team process, Recuiting, Tech leadership, Data and application security	DevOps, tool automation, analytics, UI/UX, Version control (Git), Cloud cost optimization / FinOps
Experienced	Agile/Scrum/Kanban, Stakeholder management, Managing technical debt, Communication, Technical documentation, Data privacy and regulations (GDPR)	Microservices, Serverless design and implementation, Containerization (Docker), CI/CD, TDD, REST APIs

Published (print)

- **Book: Euro Jazz**, political debate book, Forlaget Nyt Notat (co-author, 2000)
- **Book: 153 Artifacts from the future ('153 Ting fra fremtiden')**, emerging tech book, Husets Forlag (author, 2005)
- **Issue: Xpector Magazine # 5**, an innovation publication (guest editor, 2008)
- **Issue: Lilje-Rapporten # 6**, an experience economy focused business & tech quarterly (guest editor, 2008)

Languages

I speak **Danish** (native), **English** (fluent), **Swedish** (good), and some **German** (rudimentary)