

Andreas **PLEN**GE

ALGO & QUANT ENGINEER

Engineer with experience in stabilizing the energy grid. I combine a hybrid background in mathematics and software engineering to design scalable analytical tools and model complex systems. I have a strong foundation in dynamical systems, probability, and programming, and I am motivated by solving data-driven problems in performance-sensitive environments, particularly those involving uncertainty, forecasting, and optimization.

CONTACT INFORMATION

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LANGUAGES

- Danish — Native
- English — Fluent

PROGRAMMING LANGUAGES

- Python & R
- NoSQL & SQL
- TypeScript & JavaScript
- DAX & M (Power Query)
- Java

TOOLS & FRAMEWORKS

- Power BI
- Excel
- Pandas, NumPy & TensorFlow
- Power Automate

SKILLS

- Algorithm Optimization
- Query Optimization
- Data Visualization
- Programming
- Problem-Solving

References are available upon request

WORK EXPERIENCE

EDUCATION

MSc in **Software Design** 2024

at IT Univeristy of Copenhagen

- Specialization in **machine learning**
- **Thesis:** Proposed a novel machine learning algorithm for the k-approximate nearest neighbors problem, applying a hierarchical structure to inverted file indexes using k-means clustering.

MSc in **Mathematics** 2020

at University of Copenhagen

- Specialization in **dynamical systems**
- **Thesis:** unfinished

BSc in **Mathematics** 2018

at University of Copenhagen

- Specialization in **mathematical finance**
- **Thesis:** Explored the connection between the heat equation and Brownian motion, combining advanced concepts in probability and differential equations.