Nhut Nguyen, Ph.D.

Senior Algo Platform Developer
Quantitative engineering

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PROFILE

Senior software engineer with 10+ years of experience building production-grade trading and analytics systems. I specialize in bridging the gap between quantitative research and live execution. Currently working in high-frequency trading infrastructure, I am looking to apply this rigor to energy trading and data-driven decision systems.

WORK EXPERIENCE

DEC 2022 – NOV 2025 (3 YRS)

Alipes ApS (Denmark)
Research Infrastructure Engineer

- Designed and maintained core trading infrastructure to support quantitative strategies in live trading.
- Built Python and C++ systems connecting market data and execution paths with strict reliability requirements.
- Developed data pipelines to serve high-quality data to researchers, similar to the batch and streaming needs of algo trading.
- Collaborated closely with quants to reduce the time from research to production.

DEC 2021 – NOV 2022 (1 YR)

CLAAS E-Systems Denmark
C++ Software Developer

- Modernized embedded platforms for smart camera systems with a focus on reliability.

AUG 2018 – SEP 2021 (3 YRS 1 MO)

Synopsys Denmark ApS
Senior R&D Engineer

- Delivered 2x performance improvements through algorithmic and system-level optimizations.
- Translated complex theoretical research into industrial-grade software.

FEB 2016 – JULY 2018 (2 YRS 6 MOS)

Teklatech A/S (Denmark)
Software Development Engineer

- Modeled and simulated complex power delivery networks, providing a strong foundation for understanding energy infrastructure.

AUG 2012 – DEC 2015 (3 YRS 5 MOS)

Technical University of Denmark
Employed Ph.D. Student

- Provided an explicit construction for asymptotically Error-Correcting Codes using the theory of Drinfeld modular curves in Algebraic Geometry and Number Theory.

CORE SKILLS

LANGUAGES	Python, C++, SQL
TRADING SYSTEMS	Algo execution paths market data ingestion order management monitoring tools
ENGINEERING	System architecture CI/CD (GitHub, Jenkins) Linux, Docker, CMake
DATA & QUANTITATIVE	Data transformation pipelines Numerical computing collaborating with quants to productionize models

EDUCATION

2012 – 2015	**Ph.D. in Math & Computer Science** *Technical University of Denmark*
2005 – 2009	**M.Sc. in Algebra & Number Theory** *Vietnam National University HCM*
2000 – 2004	**B.Sc. in Math & Computer Science** *Vietnam National University HCM*

INTERESTS

WRITING	Books, Blogs, Social Posts
SPORTS	Football, Badminton, Swimming

LANGUAGES

ENGLISH	Fluent
DANISH	Limited working proficiency
VIETNAMESE	Native