Nhut Nguyen, Ph.D.

High-performance C++ Engineer
Problem Solver & Lifelong Learner

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WORK EXPERIENCE

DEC 2022 – PRESENT (3 YRS)

Alipes ApS (Denmark)
Research Infrastructure Engineer

- Implement, verify and optimize financial algorithms that support high-performance computation and scalability.
- Ensure the trading predictions run in microseconds using modern low-latency C++, multithreading, and CUDA.
- Collaborate with tech and quants to improve model accuracy and performance.
- Develop and maintain internal tools and libraries to streamline research and development processes.
- Prepare documentation, conduct code reviews, and presentations.

DEC 2021 – NOV 2022 (1 YR)

CLAAS E-Systems Denmark
C++ Software Developer

- Developed software modules in C/C++ for AUTOSAR-based automation applications on embedded devices.
- Modernized the base software for smart cameras in agricultural machinery with the new Embedded IT platform.

AUG 2018 – SEP 2021 (3 YRS 1 MO)

Synopsys Denmark ApS
Senior R&D Engineer

- Designed and developed software for the computer-aided design of next-generation microchips.
- Improved the robustness of the timing optimization engines to 95% and their performance to 2x.

FEB 2016 – JULY 2018 (2 YRS 6 MOS)

Teklatech A/S (Denmark)
Software Development Engineer

- Modeled the Power Delivery Network with all complex connections.

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.

JAN 2005 – JUL 2012 (7 YRS 7 MOS)

Vietnam National University HCM – School of Science
Lecturer

- Designed, gave lectures and supervised students on Algebra Computer Systems, Cryptography, Coding Theory, Arithmetics.

SOFTWARE DEVELOPMENT SKILLS

ARCHITECTS	Agile Software Development Object-Oriented Programming Test-Driven Development Multithreaded Programming
PROGRAMMING LANGUAGES	C++23, Python C, C#
AI TOOLS	ChatGPT, Claude, Copilot
OTHERS	VS Code, Rider CI/CD, Git, GitHub, GitLab Linux, Docker, CMake YouTrack, Jenkins, TeamCity
COMMUNICATION	Teams, Slack Documentation, Code Review

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

PROBLEM SOLVING	Solving LeetCode Challenges
WRITING	Technical Articles, Personal Blogs
SPORTS	Football, Badminton, Swimming
OTHERS	Learning Everyday

LANGUAGES

ENGLISH	Fluent
DANISH	Limited working proficiency
VIETNAMESE	Native