Nhut Nguyen, Ph.D.

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

☎ +45 xxxx xxxx
✉ nhut@nhutnguyen.com
○ https://github.com/ntnhut
in https://www.linkedin.com/in/ntnhut

WORK EXPERIENCE

DEC 2022 – PRESENT (3 YRS)

Alipes ApS
Research Infrastructure Engineer

Assure the trading algorithms run in microseconds.

DEC 2021 – NOV 2022 (1 YR)

CLAAS E-Systems Denmark
C++ Software Developer

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

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
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 – University of Science
Lecturer

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

MAY 2011 – SEP 2011 (5 MOS)

eSilicon Vietnam
Software Developer

Developed an automated system that generated metal connections for test chips. Designed five practical projects for students to work for interns.

SOFTWARE DEVELOPMENT SKILLS

ARCHITECTS	Agile Software Development
	Object-Oriented Programming
	Test-Driven Development
	Multithreaded Programming
PROGRAMMING LANGUAGES	C++, 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	**Doctor of Philosophy**
	APPLIED MATHEMATICS & COMPUTER SCIENCE
	Thesis: Asymptotically Good Codes
	Technical University of Denmark
2005 – 2009	**Master of Science**
	ALGEBRA AND NUMBER THEORY
	Thesis: Group-based Cryptography
	VNUHCM – University of Science
2000 – 2004	**Bachelor of Science**
	MATHEMATICS AND COMPUTER SCIENCE
	Thesis: Face Detection
	VNUHCM – University of Science

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