JOSEPH WESTON

Scientific Software Developer

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 https://joseph.weston.cloud

EXPERIENCE

Software Development Engineer II

Microsoft

 August 2021 – present   Vancouver, CA

Software Development Engineer

Microsoft (contracted via Aquent LLC)

 Feb 2020 – June 2021   Vancouver, CA

- Developing bespoke software libraries and tools for simulating topological qubits
- Scaling code and infrastructure to enable massive parallel computations

Scientific Software Developer

Qutech

 Oct 2016 – Jan 2020   Delft, NL

- Furthered development of the quantum transport software Kwant, which has been used in 400+ research projects around the world
- Led the design and implementation of open source software for science and education
- Mentored colleagues on software development best practices via code review and pair-programming sessions
- Instructed courses on, and produced teaching materials for, scientific programming in Python at the Casimir research school

EDUCATION

Ph.D. Theoretical Physics

Université Grenoble Alpes

 Oct 2013 – Oct 2016

Thesis: Numerical Methods for Time-Resolved Quantum Nanoelectronics
Awarded the Springer prize for outstanding PhD theses

MSci. Physics with a Year in Europe

Imperial College London

 Sept 2008 – June 2012

First class honors (average grade 82%)

TECH SKILLS

| Python | C | C++ | Haskell |

| Git | Bash | Docker | Ansible |

| Code Review | Pair Programming |

OPEN SOURCE

Kwant

Library for nanoelectronics simulations

Used around the world in 400+ research projects

Adaptive

Framework for parallel active learning

Zesje

SaaS platform for grading exams

Used in 50+ courses at Delft University of Technology

jupyter-sphinx

Run code snippets with Jupyter when building documentation

Nord

CLI and Python client for Nord VPN

LANGUAGES

English	*Native Proficiency*
French	*Full Professional Proficiency*
Portuguese	*Limited Working Proficiency*

SOFT SKILLS

| Detail-Oriented | Industrious |

| Enthusiastic | Quick Learner |