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Jan Westerdiep

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I am a busy bee, a fast learner, and eager to explore new ideas. I tinker with everything I see and enjoy understanding "how it works". Math and music are my thing.

EDUCATION

University of Amsterdam   Fall 2017 – Summer 2021 (expected)
Ph.D. Numerical Mathematics   *Amsterdam, The Netherlands*

· Working on provably optimal adaptive algorithms for solving operator equations.
  Advisor: prof.dr. R.P. Stevenson.

University of Amsterdam   Fall 2014 – Summer 2017
M.Sc. Mathematics (GPA: 8.6/10; Cum Laude*)*   *Amsterdam, The Netherlands*

· Courses in: numerical analysis, algorithm design, optimization, machine learning, data mining, computational fluid dynamics;
· Thesis on a novel algorithm for a 2D *hp*-adaptive finite element method.
  Advisor: prof.dr. R.P. Stevenson, graded 9/10.

University of Amsterdam   Fall 2011 – Fall 2014
B.Sc. Math & B.Sc. Computer Science (GPA: 8.6/10; Cum Laude*)*   *Amsterdam, The Netherlands*

· Two full-time bachelor's programmes;
· Including Honours certificate, with extra courses on algorithm analysis, GPU & parallel programming;
· Combined thesis on a novel algorithm for piecewise polynomial approximation in 1 and 2 dimensions.
  Advisor: prof.dr. R.P. Stevenson, graded 9.75/10 (faculty-wide highest thesis mark).

Barlaeus Gymnasium   Fall 2006 – Fall 2011
Pre-university education (GPA: 8.5/10; Cum Laude*)*   *Amsterdam, The Netherlands*

· Science & Engineering track; Latin and ancient Greek languages; additional mathematics.

EXPERIENCE

Google Inc.   Fall 2016
Software Engineering Intern   *Mountain View, California, USA*

· 14-week full-time internship at the Watch Next team of YouTube;
· Heavy on machine learning and high-performance computations (recommender systems at scale);
· Implemented an optimization in the video scoring pipeline;
· Coding in C++11; test-driven development; code reviews; working with a large code base.

ASML   Fall 2014 – Fall 2016
Technology Scholar   *Veldhoven, NL*

· €10000 scholarship awarded annually to 25 Dutch Master's students in the high-tech sector.

University of Amsterdam   Spring 2016
Lecturer (8 hrs/week)   *Amsterdam, NL*

· Creating Competitive Programming workshop for ±10 students training for the ICPC European finals.

University of Amsterdam   Fall 2011 – Fall 2015
Study Advisor – Double Bachelor   *Amsterdam, NL*

· Inspiring pre-university students for our Double Bachelor programme.

EXTRACURRICULARS

Stichting Bèta Bedrijvencontactdag Amsterdam   Fall 2014 – Summer 2015
Board member: Head of Marketing for Bèta Career Event 2015 (20 hrs/week)   *Amsterdam, NL*

· Responsible for design & print, marketing strategies, website, student registrations, acquisition;
· 50% increase of student participants wrt. earlier editions (from previous 350);
· Acquisition of several companies in the technology sector, such as ASML, MediaMonks, Thales, IBM.

Jellinek Verslavingszorg   November 2014 – Current
Volunteer: Peer Educator for Unity Amsterdam (4 hrs/week)   *Amsterdam, NL*

· Unity is a volunteer project for and by young people in the dance scene. We provide harm reduction education at dance events.

Phanos Amsterdam   2007 – 2012
Top athlete in Track & Field (15 hrs/week)   *Amsterdam, NL*

· Performed in the short sprint (100m, 200m) and 4×100m relay disciplines, conquering a ninth all-time place in the Dutch 200 metres Under-20 rankings;
· Member of the 2012 Dutch Under-20 World Championships relay team;
· Training pupils age 6–12, focusing on fun and creative ways of teaching the disciplines of athletics.

HONOURS AND AWARDS

2016	First place NEWCRAFT 24H Data Challenge (2nd in 2015)
2015	29th place, Northwest-European finals of International Collegiate Programming Contest
2014	ASML Technology Scholarship
2012	Second place, Dutch Track & Field nationals Under-20 in the 200 metres
2008	Second place, Mathematics Tournament (Radboud University Nijmegen)

SKILLS

Computer Languages	C++(11), C, Python, MATLAB, Mathematica
Tools	vim, git, LaTeX, Photoshop, Mac OSX, GNU Linux
Natural Languages	Dutch (*mother tongue*), English (*full professional proficiency*)

INTERESTS

Live performances in electronic music genres, cooking, hiking, athletics, swimming.