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Jan Westerdiep

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The Netherlands

I am a busy bee, a fast learner, a kid at heart, and eager to explore new ideas. I tinker with everything I see and enjoy understanding "how it works". Mathematics and computer science are my thing. I am hoping to find and learn from an internship position this Fall in the field of Software Engineering.

EDUCATION

University of Amsterdam   Fall 2014 – Fall 2017 (expected)
M.Sc. Mathematics (GPA: 8.8/10)   *Amsterdam, The Netherlands*
· Selected coursework: functional analysis, numerical analysis, algorithm design, optimization;
· ASML Technology Scholarship for excellent students in the high-tech sector.

University of Amsterdam   Fall 2014 – Fall 2017 (expected)
M.Sc. Computational Science (GPA: 8.8/10)   *Amsterdam, The Netherlands*
· Main focus: machine learning, simulation, numerical mathematics.

University of Amsterdam   Fall 2011 – Fall 2014
B.Sc. Mathematics (GPA: 8.6/10; Cum Laude*)*   *Amsterdam, The Netherlands*
· Including Honours certificate;
· Combined thesis on a novel algorithm for piecewise polynomial approximation in 1 and 2 dimensions. Advisor: R.P. Stevenson, graded 9.75/10.

University of Amsterdam   Fall 2011 – Fall 2014
B.Sc. Computer Science (GPA: 8.7/10; Cum Laude*)*   *Amsterdam, The Netherlands*
· Courses on algorithm analysis, compiler construction, GPU & parallel programming.

EXPERIENCE

ASML   Fall 2014 – Fall 2016
Technology Scholar   *Veldhoven, NL*
· €10000 scholarship that is awarded annually to 25 Dutch Master's students in the high-tech sector;
· Selection based on academic accomplishments and interpersonal skills;
· Monthly meetings with personal coach, and management-, soft skill & personal development trainings.

University of Amsterdam   Spring 2016
Lecturer (8 hrs/week)   *Amsterdam, NL*
· Creating Competitive Programming workshop for ±10 students training for the ICPC European finals.

Copernica Marketing Software   November 2015 – Current
Software Engineering Intern (8 hrs/week)   *Amsterdam, NL*
· Contributing to and writing documentation for high-performance parallel applications written in C++.

University of Amsterdam   Fall 2011 – Fall 2015
Study Advisor – Double Bachelor   *Amsterdam, NL*
· Inspiring pre-university students for our Double Bachelor programme.

PROJECTS

*hp***-AFEM implementation (spin-off of B.Sc. thesis)**   Fall 2015 – Current
· First-ever implementation of a novel *optimal* algorithm in the field of Finite Element Methods;

· Very technically challenging from both mathematical and software architectural viewpoint;
· Goals: working library and visualisation tool; publication in scientific journal; correctly identifying and applying design patterns. Written in C++, Python, MATLAB.

Apparatus
Spring 2016

· Bag-Of-Features image classifier using Machine Learning methods. Final solution yields 99.5% accuracy on a held-out test set of images. Written in MATLAB.

Parallel Conjugate Gradients on Sparse Stiffness Matrices
Spring 2015

· In-depth analysis and massively parallel implementation of numerical linear algebra algorithm, with a novel application in Finite Element Methods. Written in C, using OpenMP and MPI.

Keyboard brain transplant
Spring 2015

· Mod of my Happy Hacking Pro 2 keyboard, making it fully hardware programmable by desoldering the original controller and replacing it with an alternative.

EXTRACURRICULARS

Stichting Bèta Bedrijvencontactdag Amsterdam
Fall 2014 – April 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   *Amsterdam, NL*

· Unity is a volunteer project for and by adolescents in the dance scene. We provide harm reduction education at dance events by having conversations and taking quizzes.

Phanos Amsterdam
2007 – 2012

Top athlete in Track & Field   *Amsterdam, NL*

· Performed in various national and international events, 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.

HONOURS AND AWARDS

2015	29th place, Northwest-European finals of International Collegiate Programming Contest
2015	Silver medal, Newcraft Big Data Challenge
2014	ASML Technology Scholarship
2012	Silver medal, Dutch national championships Under-20 in the 200 metres
2008	Silver medal, Mathematics Tournament (Radboud University Nijmegen)

SKILLS

Computer Languages	C++, C, Python, MATLAB, PHP, SQL, CSS, JavaScript, Objective-C (iOS), Java (Android)
Tools	vim, git, LaTeX, Photoshop, Mac OSX, GNU Linux
Natural Languages	Dutch (*mother tongue*), English (*full professional proficiency*)

INTERESTS

Live music performances, typography, athletics, competitive programming.