

LARS ERIK OPDAL

Software developer



BIOGRAPHY

I started playing chess and video games in preschool and became amused by mathematics. Finished elementary school math curriculum two years early, at age 10. Developed a serious interest in computers when discovering the world wide web in '94, as it initiated a curious desire to understand how electrical signals in transistors could be converted to interactive text on screens.

Courses in frontend technologies (HTML, CSS, JavaScript) and relational database modelling in high school led to starting a small company making web pages at the end of the dot com-era. Became very interested in Linux as a free alternative to Windows and migrated to the Linux platform in 2004. Worked a few years with desktop publishing before college education, majoring in natural science.

Became interested in tutoring during college where I was a teaching assistant and later private tutor in mathematics and physics. Founded a development company during University and did projects for international customers. In the finishing phase of my master's degree in computer science I worked at the University of Oslo (UiO), grading mandatory assignments and exams in computer science, before starting my professional career in 2016.



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After finishing the master's degree, I went on to Simula research lab for a small project in the summer of 2016. I then joined the University of Oslo's IT-department working with client operations and automating maintenance tasks in a Windows client environment. After a short period at UiO I started at Unit (former Ceres), first on the Cristin project (Current Research Information System in Norway) as a frontend developer in an agile environment with Scrum as the main methodology. Continuous integration (CI) was an important part of the development, test and production pipeline. Technologies like JavaEE and JSF alongside traditional frontend languages like HTML, CSS and JavaScript were used. After one year at Cristin I moved to another project within the same organization: The EWP (2.0) project — Erasmus Without Paper — implementing the API's of the EWP standard and targeting Norway's Student Information System (SIS), Felles Studentsystem (FS) and their institutions as the data source. Developed on JBoss/EAP platform with JavaEE as backend on top of JPA/Hibernate ORM and Oracle Database. Currently also working with the FS API; opening for a broader range of services towards the higher education institutions of Norway.



SKILLSET

My technical skills are centered around the open source tech stack with Linux; Apache, Java and Python. I also have a large number of hours in the programming language C due to my education from the university of Oslo. Proficient in the Microsoft office suite. Very comfortable with the Adobe Creative Suite, especially photo and video editing. Familiar with 3D-design both in a programmatic way and from a designer's perspective with tools like Maya and Blender. The last couple of years I have acquired a lot of experience in web development where I am working towards a senior level of experience. Besides being a developer, I give lessons in introductory courses in computer science at high school and college level.



REFERENCES

FredrikLangfeldt

USIT Local IT-department University of Oslo

// Leader/Manager

My former boss at USIT (universitetssenteret for informasjonsteknologi, lokal-IT), a department with responsibility for client operations for 6000 employees at the University of Oslo (UiO). As the staff-boss, Fredrik Langfeldt was responsible for my training in large scale client operations.



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ArneMaus

Programming & software engineering group, UiO

// Ph.D., Computer Science

Associate professor and supervisor for my master thesis at UiO. We worked together for 2 years through regular meetings. The supervision was based on a series of assignments, which was solved and then given feedback on. After finishing the degree, I helped Maus with correcting exams for one of his courses in java programming and algorithms.



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Martin
Sandtrøen

Nordland County Council

// Business developer in public transportation

Have worked together on several projects involving use of APIs in public domain. Solving infrastructure problems in IT-systems by using cloud-computing to handle data-storage, data-transfers and security. Our working relationship is based on consultation for each other.









COMPUTER SCIENCE University of Oslo

AUG 2013 - JUN 2016

Master's degree in computer science – programming and networks.

Master's thesis: A comparison of parallel computing/HPC in multicore and cluster environments.

COMPUTER SCIENCE University of Oslo

AUG 2011 - JUN 2013

Courses in object-oriented programming (Java), digital image processing (Matlab) and problem solving with high

level languages (Python).

ELECTRICAL ENGINEERING Vestfold **University College** AUG 2008 - JUN 2011

Bachelor's degree in electrical engineering. Main project: Programming the landing module for a UAV, including

design of a pattern-recognition system for the onboard cameras. Programmed in C/C++ with the OpenCV library.

MATHEMATICS AND NATURAL SCIENCE University of As

AUG 2007 - JUN 2008

Introduction courses in mathematics and natural science.



WORK EXPERIENCE

Unit Software developer

IUN 2018 - PRESENT

Currently working with the EWP (2.0) project – Erasmus without paper. Implementing the APIs of the EWP standard. Targeting Norway's student information system (SIS), Felles Studentsystem (FS) and their institutions as the data source. Developed on JBoss/EAP platform with java as backend on top of JPA/Hibernate ORM and Oracle Database.

CERES/KDTO/Unit Software developer

MAR 2017 - JUN 2018

Developing services for the Education & Research Sector: CRISTIN and CRISREST (CRISTIN API) (current research information system in Norway). Developed on JBoss/EAP platform with Java as backend and JSF/XHTML/javascript

as frontend.

Staff engineer

University of Oslo AUG 2016 - MAR 2017

Working with client operation support. Windows, Linux and Mac at the local IT-department.

University of Oslo

NOV 2016 - DES 2016

Grading 200 exams for course in algorithms and data structures (INF2220).

Simula Research

Laboratory

Summer intern JUN 2016 - AUG 2016

Internship at networks department. Development of data collector tool for analyzing traffic in The Border Gateway

Protocol (BGP). The application was developed with Python and MySQL database.

Examiner University of Oslo

JAN 2016 - AUG 2016

Grading exams and providing feedback on mandatory assignments for 20 students in data communications course

(INF3190)

Lama Software AS Project manager

JAN 2014 - DES 2017

Worked as project manager and system architect. Most of development was done by hiring freelance. Projects included: Lead manager web application with integration with craiglist's and finn.no's APIs for Miami rental authority. A mobile app for shopping centers with map-functions, programmed in HTML, CSS, javascript and developed with

Adobe PhoneGap. Creating and maintaining webpage for a music festival.

Bergans Software engineer Mekanikk AS

IAN 2013 - AUG 2013

Developed web application for calculating travel routes in Django framework with the Python programming

language, including an approximated solution to the traveling salesman problem (TSP) with heuristics.

Oslo by Math teacher

Steiner School AUG 2012 - IAN 2013

Substitute math teacher during one semester for a class in high school.

Tutor Privatundervisningen

AS

JAN 2012 - PRESENT

Self-employed private teacher through own company. Tutoring high school students in mathematics and natural

science 5-10 hours a week.

Vestfold Teaching assistant

University College JUN 2009 - AUG 2011

Undergraduate TA in math and physics classes for 5-10 hours a week, as well as teaching daily for 8 weeks in the

summer of 2010. Learned tools and techniques for explaining and visualizing complicated theory.