CV

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Education

M.Sc. in Computer Science and and Engineering, Linköping University   08.2013 – 06.2018
B.Sc. + M.Sc. in the Media Technology programme. My focus was software development, visualizations, computer graphics, AI and image processing.

Academic year abroad, National University of Singapore (NUS)   08.2016 – 05.2017
I spent my 4th academic year in Singapore as an exchange student. Some of the areas I studied was CGI, AI, UX and parallel algorithms.

Film production, Sundbyberg's Folk High School, Stockholm   08.2012 – 05.2013
Natural Sciences, Per Brahe High School, Jönköping   08.2008 – 06.2011

Work experience

Software Engineer, Sectra Imaging IT, Linköping.   08.2018 – Current
Permanent position in the product development department. My team works with developing radiology imaging solutions for Sectra's PACS software, IDS7. Sectra's overall goal is to contribute to a safer and healthier society and our software runs in hospitals all over the world. We're coding in C# (.NET framework) with some C++ on the side.

Master Thesis Project, Visualization Center C, Norrköping   01.2018 – 06.2018
My master thesis project was to visualize 1,7 billion stars from the second data release of ESA's Gaia mission and incorporate it into the open-source project OpenSpace. I managed to run the full dataset both on desktop PC's and in dome clusters. Developed in C++17 and OpenGL.

Teaching Assistant, Linköping University, Norrköping   08.2017 – 12.2017
Lab assistant for 2 different C++ programming courses at LiU. First TND012 for 1st year students and then TNG033 for 2nd year students.

Software Developer, Sectra, Linköping.   06.2017 – 08.2017
Summer job at Sectra Imaging IT (in a group of 5) to further develop an instant messenger feature for their main product with C# and .NET framework. Main tasks were to store chat history, enable group chats, add emoji support, add an 'Away' status and to improve the UI. My main focus was on the client and the front end development. I gained experience with exploring a huge code base and delivering professional solutions for real customers.

Researcher, Spotscale, Linköping   06.2016 – 07.2016
  Researched Machine Learning as a summer job with one other
  student. More specifically we explored Deep Convolutional Neural
  Networks and examined if we could apply it on Spotscale's problems.
  In the end we could successfully classify images into 3 categories,
  and then also classify superpixels into 9 other categories.

Salesman, Media Markt, Norrköping   06.2015 – 08.2015
  Summer job at the TV/HiFi department.

Mathematics tutor, Linköping University, Norrköping   09.2014 – 04.2015
  Mentoring role where I held lessons for 1st year students and
  tutored them in three different mathematics courses.

Other engagements and achievements

Winner of category "Technical Excellence" at CAwards 2018   05.2018
  I won with the project "AI-maze me" which is a web-base maze
  solving game where the user can play against an AI that has been
  trained with Q-learning. Built with WebGL and JavaScript.

Winner of "Best UI project" for ETiCCS, NUS   04.2017
  My team won first prize for our React-Redux app made in an UI dev.
  course at NUS. After the semester me and one more student continued
  developing the app after the request of ETiCCS. It is since Aug 2017 being
  used in a real-life cervical cancer screening project in Ethiopia.

Winner of East Sweden Hack 2015   09.2015
  I was part of the team that won grand prize "Best Project" (an IoT
  trip to Berlin) at the 24h hackathon ESH15 with the project Trygga.

Paymaster for the Media Technology Days 2016   07.2015 – 06.2016
  MTD is the biggest career fair for students in Norrköping. It is two
  days filled with a company fair, lectures, workshops and other
  events. I was in charge of the finances and a co-leader of the group..

Languages
  ❖ Swedish: Native (C2)   ❖ English: Professional (C2)   ❖ Spanish: Basic (A1)

Programming skills:
Most comfortable with: C/C++, C#, OpenGL, Rendering techniques, Web development
(Bootstrap, JavaScript, React/Redux, HTML5/CSS3), Java, Matlab, Git.

Worked with for projects: Android development, Python, R, OpenCV, Meteor.js,
Angular.js, THREE.js, Parallel programming (CUDA, MPI, OpenMP, OpenCL, SGCT).