



Johan Djärv Karltorp

Software engineer

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Briefly about me

Graduated from Blekinge Institute of Technology in the Software Engineering program.
Title: Degree of Bachelor of Science. Main field of study: Software Engineering.

I am a full stack developer who likes everything from frontend design to backend APIs. I am a driven individual who gives 100% commitment and wants to do something I can be proud of and show to others. I want to challenge myself and develop my ability to write better code. Always curious to learn new techniques and tools. Keeps my ears open to new developments in our industry so I keep up with the latest technology.

I have a good aesthetic ability and think a lot about user-friendly design. Takes a lot of inspiration from minimalist design and Google Material Design principles. Everything's better with a nice design.

Work experience

2019 - 2019

BAGA AB - *Software Engineer*

Worked as a development consultant during a summer to further develop the Planning Plumbing Program project that BAGA and my group created in 2018 as part of course PA1416 Software project in group, at BTH.

Worked with technologies such as: HTML, CSS, Javascript, Leaflet.js, Node.js and mongoDB.

Education

2014 - 2017

Kattegattgymnasiet - *Technology program, information and media technology*

Learn the basics of programming, networking, web development, design and digital creation.

2017 - 2020

Blekinge tekniska Högskola - *Software Engineering*

MA1476 Introduction to Mathematics
DV1540 Initial Programming in C++
DV1537 Object-oriented Programming in C++
MA1484 Discrete Mathematics for Software Technology

DV1538 Algorithms and Data Structures
DV1464 Computer Organization
PA1444 Web Development and Databases
PA1443 Introduction to Software Design and Architecture

DV1603 Operating Systems
ET1524 Networked Systems
PA1414 Individual Software Engineering Project
DV1466 UNIX and Linux, an Overview and Introduction

DV1557 Usability and Interaction Design
PA1417 Basic System Verification
PA1416 Small Team Software Engineering Project

MA1485 Linear Algebra
DV1567 Performance Optimization
DV1566 Introduction to Cloud Computing
PA1469 Mobile Applications Development
PA1449 Advanced Software Engineering Project
PA1445 Bachelor's Thesis in Software Engineering

Project

2018	<p>Parkbot Karlskrona</p> <p>Completed course PA1414 Individual software Engineering project at Blekinge Institute of Technology.</p> <p>An android application that runs in the background while the user is driving. When the car is parked, the app does a search in the municipality's street sweeping register to see if the street and the specific side of the road the user parked on, have a temporary parking ban within the next 24 hours. If true, a warning note is sent to the user.</p> <p>A major focus was that the application should automatically detect without input when the user started to drive and when the user parked his/hers car.</p> <p>The project was made to Softhouse Consulting AB as a customer. Our contact person and project owner was Gustav Phil Bohlin.</p>
2019	<p>Planning Plumbing Program</p> <p>Completed course PA1416 Small Team Software Engineerig Project at Blekinge Institute of Technology.</p> <p>I and five students were assigned to develop a web tool for the company BAGA Water Technology AB with Patrik Ellis as our contact person and project owner.</p> <p>The customer needed a project system for drawing sewage networks on an interactive map as well as project management and project sharing. The sewage network needed to be drawn on a map where the products would then be installed in the real world. When a user places a pumping station on the map and connects it to the sewer network, the tool should then help by making calculations and showing warnings if the pump is not suitable for the selected scenario.</p>
2020	<p>E-force</p> <p>Completed course PA1449 Advanced Software Engineering Project at Blekinge Institute of Technology.</p> <p>Me and ten students have been commissioned by Softhouse Consulting AB to develop a serverless system in the AWS cloud to manage up to one million IoT units. A lot of statistics for different actors within the system are to be shown and fast response time between the different components is the main focus of the project.</p>

Knowledge

html
CSS
Javascript
React
Vue

Leaflet.js

UX design

Multithreaded programming using Web Workers in frontend Javascript web applications

Node.js

Express

Multithreaded programming using Workers Threads in node.js backend server

AWS - Lambda functions, EC2, IoT-Core, IoT-Analytics, S3, QuickSight, DynamoDB, CloudWatch, API-Gateway

C++

C

Object-oriented programming

SFML

RESTful APIs

Dart & Flutter - Mobilutveckling

Java

Python

Mysql/MariaDB

MongoDB

SQL

JSON

Git, Github, Gitlab & Bitbucket

Bitbucket Pipelines CI/CD

Github actions CI/CD

Jira, Issue & Project Tracking Software