

Iselin Sophie Magnussen

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Profile

Final-year Information Systems student at Østfold University College, specialising in software engineering. I like understanding how systems fit together, from the database and the backend to the pipeline that ships them and the people who use them, and I am open to roles in development, data and IT. I have built normalised databases, full-stack applications and a CI/CD pipeline with zero-downtime deployment on AWS. In spring 2027 I am writing my bachelor thesis for Omda on AI speech-to-text for emergency call centres. As an authorised dental health secretary with several years in clinics and retail, I am used to working accurately under time pressure and with people.

Education

Bachelor in Information Systems, Østfold University College · 2024–2027

Specialisation in software engineering. Completed courses include Programming 1 (Python), Programming 2 (Java), Web Development, Database Systems, Introduction to Data Security, Design of Digital Products, UI Design Project, Introduction to Generative AI, Digital Marketing and Project Management. Remaining: Business Intelligence, Big Data, Information Security, Digitalisation Strategy and the bachelor thesis.

Exchange semester, UAS Technikum Wien, Austria · January–July 2026

Software Engineering 2 Laboratory, Continuous Integration, Applied Computer Science, Network Security, System Hardening, Requirements Engineering, and German Language & Austrian Culture A1.

Dental health secretary, Malakoff Upper Secondary School · 2022–2023

Authorised dental health secretary.

Health services and health and youth work, Borg Upper Secondary School · 2020–2022

Projects

Bachelor thesis for Omda · spring 2027 (upcoming)

AI speech-to-text and real-time documentation for emergency call centres, in a team of four. We will test Norwegian speech-to-text models that run locally and build a prototype that fills in the operator's fields while the call is in progress.

Ski Wax Database · team of two, 2025

MySQL database, normalised to BCNF, that suggests an alternative ski wax based on temperature, snow type, track conditions and skill level. ER model, views for common searches, role-based access and real product data from Swix imported from CSV.

Campus Lost & Found API · solo project, 2026

REST API in Node.js and Fastify with PostgreSQL full-text search and API-key access. Built a seven-stage GitHub Actions pipeline: SonarQube, Snyk, Jest, Docker, Docker Hub, k6 load testing and blue/green deployment on AWS EC2 and RDS. Result: 20/20 tests passing, 86% test coverage and zero downtime on release.

TourPlanner · team of two, 2026

Full-stack app for planning tours, with Angular, Java and Spring Boot, PostgreSQL, JWT login and maps with Leaflet and OpenRouteService. I was responsible for the frontend screens and ViewModels, the unit tests, full-text search and import/export. 35 unit tests with JUnit and Mockito.

Quiz System Requirements · individual, 2026

Turned a lecturer's wishes into 20 numbered requirements, 15 user stories in 3 epics and 19 BDD scenarios in Gherkin, traceable from customer need to test.

Lumeo · team of four, 2025

Project lead for a wearable prototype that helps people find their way around campus with light, sound and vibration. Built with Micro:bit and 3D printing, with screens in Figma, and tested with users, including an A/B test of vibration patterns.

Other projects: GreenClean, an app concept in Figma based on a survey, personas and a usability test with 8 people. A web shop in plain HTML and CSS, built mobile first. City Break Barcelona, a digital campaign plan with personas, customer journey, ads and a landing page. All projects are described at iselinmagnussen.devdrop.dev.

Work experience

Dental health secretary, Colosseum Tannlege, Fredrikstad · November 2022–December 2025

On-call substitute. Received patients, assisted the dentist during treatment, worked in the sterilisation room and kept the clinic clean.

Dental health secretary, Storbyen Tannklinikk, Sarpsborg · May 2022–2024

Substitute with the same tasks, and prepared instruments for different treatments.

Sales associate, Gina Tricot · May 2023–November 2025**Store associate, Extra Manstad · May 2022–May 2023**

Cash register, restocking and post, with responsibility for locking up the store.

Shop assistant, Telia Storbyen · August 2020–November 2022

Responsible for sales, daily routines, cash settlement and night safe deposits. In my last year I took on extra responsibility for routines, sales and motivating colleagues, on my own initiative. The store manager is available as a reference.

Store associate, Kiwi Råbekken · September 2019–June 2020

Cash register, restocking and customer service.

Technical skills

Area	Tools and technologies
Databases	SQL, PostgreSQL, MySQL, JPA/Hibernate, normalisation and ER modelling
Programming	Java, Python, JavaScript (Node.js), HTML, CSS
Frameworks and tools	Spring Boot, Angular, Fastify, Javalin, Maven, Jupyter
DevOps and cloud	Git, GitHub Actions, Jenkins, Docker, AWS (EC2, RDS), blue/green deployment
Testing and quality	JUnit, Mockito, Jest, k6, SonarQube, Snyk, BDD with Gherkin
Network security	OPNsense, OpenVPN, IPsec, WireGuard, VLAN, WPA2-Enterprise with FreeRADIUS, Suricata IDS/IPS
System hardening	Linux (SSH, nftables, fail2ban, Lynis, SELinux, AppArmor), Windows Server, BitLocker, Active Directory and IAM
Requirements and design	Requirements specification, user stories, Figma, usability testing, accessibility (WCAG)

Area	Tools and technologies
Project work	Project planning (WBS, Gantt, risk register), Design Thinking, Scrum

Other

- Languages: Norwegian (native), English (fluent), German (A1)
- Driving licence, class B
- References available on request