Elisabet Hein
Software Engineer

Motivated Computer Science student in my final year at the University of Tartu, specializing in s**oftware development** and **data science**. Passionate about **AI**, **full-stack development**, and **human-computer interaction**. Experienced in **software analysis**, **backend solutions**, and **UI/UX**. Strong problem-solving skills with a creative, analytical, and forward-thinking mindset.

Contact

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Location
Tartu, Estonia

Links & Repos
LinkedIn
GitHub

Expertise

- Java, Spring Boot, Hibernate, JPA
- Python, Pandas, TensorFlow, Keras, NumPy
- SQL, PostgreSQL, Oracle
- Vue.js, JavaScript, TypeScript, HTML, CSS
- Git, Docker, CI/CD
- Software Testing
- UI/UX, Prototyping, Figma
- Systems Engineering, Requirement Analysis
- Agile Ways of Working

Hobbies

I prioritize a healthy lifestyle and stay active by regularly going to the gym, which helps me build discipline and resilience. I also enjoy arts and crafts, allowing me to express my creativity and attention to detail. These passions contribute to my balanced and dynamic approach to both life and work.

Experience

September 2024 - June 2025
University of Tartu
Full-Stack Developer & Researcher

Developed the Emergency Alert Application for the Estonian Wildlife Center, a role-based web platform to enhance wildlife rescue coordination. Built and deployed the application using **Vue.js** (front-end), **Java & Spring Boot** (back-end), and **PostgreSQL** (database), while also configured and managed **cloud server deployment**.
Simultaneously conducted my Bachelor's thesis on **AI-powered classification** of disengagement events in autonomous driving, focusing on **machine learning**, **data preprocessing**, and **explainable AI**.

June 2024 - September 2024
Playtech Estonia
Software Analyst Intern

I analyzed **software requirements** to enhance **backend systems** and **frontend UX** solutions, working closely with **cross-functional teams** to identify needs, design scalable solutions, and optimize overall functionality. I contributed to the design and development of new features for both backend systems and user-facing interfaces, gaining hands-on experience in **troubleshooting, system analysis, and performance optimization**. Through my involvement in high-impact projects, I developed strong **problem-solving** and **analytical skills** while ensuring efficient and effective software solutions.

September 2022 - March 2023
SEB Pank
Participant in SEB Enterpreneurship program

As part of Talents to Tartu program in University of Tartu Youth Academy in a group of three, I wrote a **research** on how to combine banks and social media. Our goal was to come up with a new innovative product idea. Making use of **virtual reality** solutions, we came up with a choice-based game teaching finance which would be playable via VR, computer and mobile.

Education

September 2022 - June 2025
Bachelor's student, University of Tartu

Currently studying Computer Science in the University of Tartu.
My thesis explores the **use of AI** to automate the classification of disengagement events in autonomous driving to improve safety and responsiveness in **self-driving technology**.

September 2019 - June 2022
Jõgevamaa Riigigümnaasium

Graduated with highest honours.

September 2010 - June 2017
Jõgeva kuntsikool

Studied at an art school during my early education, which developed my artistic awareness and eye for design. This background enables me to bring a creative and visually thoughtful approach to my work, enhancing my design and user experience skills.