BALAZS HEVESI

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EDUCATION

Linnaeus University - Växjö, Sweden Expected graduation: June 2027
Bachelor of Science, Software Technology (Computer Science), GPA: 3.69 / 4.0

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Software Design, Computer Networks, Computer Security, Database technology, Computer Technology, Discrete Mathematics, Linear Algebra, Introduction to Machine Learning, Applied IoT

The Odin Project (Foundations + Full Stack JavaScript) - Online July 2023

PROJECTS

Plant Monitoring and Watering System *(Docker Compose, MicroPython, Telegraf, InfluxDB, Grafana)* July 2025

- Architected a full-stack IoT pipeline using MicroPython on Raspberry Pi Pico WH to sample temperature, humidity, light-intensity and soil-moisture every second, then publish via MQTT to Adafruit IO.
- Containerized Telegraf, InfluxDB, and Grafana with Docker Compose, enabling one-click deployment, reducing manual setup steps from 12 to a single command.
- Designed a reusable sensor-abstraction layer in MicroPython, defining a Sensor superclass to reduce code duplication by 40% and simplify the addition of new sensor types.
- Setup a soil moisture alert system via webhooks, allowing faster response times to prevent over or under watering.

AI News Summarizing Application *(Java, JavaFX, PostgreSql, SQLite, CSS, RSS)* June 2025

- Collaborated in a five-person Scrum team, running weekly sprints, daily stand-ups, sprint planning and retrospectives, delivering a fully functional MVP in five sprints, meeting 100% of client requirements.
- Developed a JavaFX frontend (FXML + CSS) featuring feed toggles, settings screen, togglable themes, AI summary views and local SQLite caching for offline reading, improving first-load time by an estimated 50%.
- Structured the codebase as a Gradle multi-project to improve build times and enforce clear separation of concerns.

När-Slutar-Lektionen.net *(NextJS, ReactJS, Typescript, Tailwind, Chrome Dev Tools, AWS Amplify)* July 2024

- Reverse-engineered and documented Skola24's private API by intercepting and analyzing encrypted client requests to reconstruct its proprietary signature-generation and five-step handshake protocol, unlocking programmatic access to school-year and timetable endpoints without access to official documentation.
- Crafted a responsive user interface using NextJS, RSC, Tailwind CSS, achieving an average Lighthouse score of 99 across all categories and reducing the number of clicks to access school schedules from 11 to 2 clicks.
- Leveraged Next.js 14 server components to handle all Skola24 API calls on the server-side thus bypassing browser CORS restrictions and shrinking the client bundle by 10%.

React-Ripples-Continued *(React, TypeScript, NextJS, Tailwind CSS)* January 2024

- Packaged a lightweight, dependency-free React library in TypeScript delivering Material Design ripple effects via two customizable components (Ripples & RippleSurface), published to npm.
- Authored documentation site and showcase using Next.js and Tailwind CSS Typography and deployed it as a static GitHub Pages site to streamline adoption and reduce support requests by an estimated 40%.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript/TypeScript, HTML, CSS, SCSS, SQL
Frameworks & Libraries: ReactJS, NextJS, Tailwind, NodeJS, Bun, ExpressJS, HonoJS
Tools & DevOps: Visual Studio Code, Zed, Docker, NPM, Git, Github, REST-API, AI-Agents, Chrome Dev Tools

AWARDS AND RECOGNITION

Upper Secondary School: Diploma-Project Award ARTICLE June 2024

ADDITIONAL EXPERIENCE

Kaxig AB: Web Developer Upper Secondary School Diploma Project Internship October 2023

OTHER + PERSONAL INTERESTS

Certificates: AM+B Swedish Drivers License, Forklift License
Personal Interests: Nutrition, Weight Lifting, Muay Thai, Music Production
Citizenships: Swedish, Hungarian
Languages: English, Swedish, Hungarian