

Johannes Tampere

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SKILLS

Languages: Python, JavaScript, Typescript, C/C++, SQL, HTML, CSS, Bash

Libraries & Frameworks: React, Next.js, Angular, Tailwind CSS, Node.js, Express, FastAPI, Django, Scikit-learn

Technologies: Git, MySQL, MongoDB, NPM, Supabase, AWS, Docker, RESTful APIs, Jira

EXPERIENCE

Software Developer

Tallinn, Estonia

Tallinn Secondary School of Science

September – December 2023

- Developed a social platform for freshman week, streamlining senior–freshman communication for **200+ users**
- Built a lightweight frontend with **React**, and maintained a **PHP** backend connected to a **MySQL** database
- Deployed the platform on **Apache** with **Cloudflare CDN** to optimize caching, cutting load times by **40%**
- Implemented **Cloudflare WAF** + **automated TLS**, reducing maintenance by **30%** and boosting security
- Maintained the school's newspaper website by deploying site updates and ensuring uptime and accessibility

Data Analysis Intern

Tallinn, Estonia

Delfi

June – August 2023

- Built **NLP pipelines** in Python/EstNLTK to analyze **10,000+** news articles, boosting user engagement by **15%**
- Analyzed behavioral data of **30,000+** users using Pandas, NumPy, and SciPy to uncover retention trends
- Trained random forest classifier with **scikit-learn** to predict churn risk, saving **10+ hrs/week** in manual analysis
- Attended weekly team meetings and contributed to project planning discussions, enhancing communication skills

PROJECTS

Donor3 📁 | *Next.js, TypeScript, Django, SQLite, Tailwind CSS, Google Gemini API, Google OAuth*

- Built an AI-powered donation platform matching donors to charities instantly, reducing donation time by **90%**
- Engineered a scalable **Django/SQLite** backend with **<300ms** latency, enabling instant donor impact
- Designed a user-focused UI with Next.js, Tailwind, and TypeScript for a seamless donor experience
- Integrated Gemini API to parse natural-language donor intent, and Google OAuth for security and authentication

FairFi 📁 | *Next.js, Node.js, Express.js, MongoDB, Tailwind CSS, Twilio, Cohere Command R+*

- Led team of 4 at DeltaHacks 2025 to build AI tool detecting bias in support calls, winning from 500+ participants
- Built full-stack system with **Next.js**, **Express.js**, **Node.js**, and **MongoDB** for real-time call analysis and storage
- Achieved **<200ms** latency by optimizing backend performance, enhancing user experience and responsiveness
- Integrated **Twilio** for realistic call simulation and **Cohere Command R+** for real-time sentiment analysis

GuardiaAI 📁 | *React.js, JavaScript, Node.js, Express.js, Google Gemini API, Tailwind CSS*

- Developed a **Chrome Extension** at **SpurHacks** that warns elderly users of potential online scams in real time
- Built **Node.js/Express** backend using Gemini API, processing content in **<500ms** with **95%** accurate risk scores
- Developed an accessible React and Tailwind interface that significantly improved navigation for elderly users

MindBloom 📁 | *Next.js, TypeScript, Supabase, PostgreSQL, FastAPI, OpenAI API, Zustand, D3.js*

- Built an AI-powered brainstorming tool (OpenAI API) with real-time mindmaps, cutting ideation time by **40%**
- Architected a full-stack web app using **Next.js** and **FastAPI**, enabling interactivity with live sync via **Supabase**
- Utilized **Zustand** to handle complex client-side state including active nodes, real-time edits, likes, and user activity

johannestampere.com 📁 | *Next.js, TypeScript, Tailwind CSS, AWS, Framer Motion*

- Built and deployed a modern portfolio website using Next.js, TypeScript, Tailwind CSS, and Framer Motion
- Utilized **AWS S3**, **CloudFront**, and **Route 53** for static hosting, secure content delivery, and https support

EDUCATION

University of Waterloo

Waterloo, Ontario

Honours Bachelor of Computer Science

Expected Graduation: 2028

Relevant Coursework: *Object-Oriented Software Development, Data Structures & Algorithms, Tools & Techniques for Software Development, calculus, linear algebra, statistics and probability, combinatorics*