Johannes Tampere

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SKILLS

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

Libraries & Frameworks: React.js, Node.js, Next.js, Tailwind CSS, Express, FastAPI, Django, Flask

Technologies: Git, Github Actions, AWS, Docker, Vercel, NPM, REST APIs, Supabase, MongoDB, MySQL

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 unsubscription trends
- Trained a random forest classifier with **scikit-learn** to predict churn risk, saving **10+ h/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 donor-written prompts and **Google OAuth** for security and authentication

FairFi | *Next.js, Node.js, Express.js, MongoDB, Twilio, Cohere Command R+*
- Led team of 4 at **DeltaHacks** to build an 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

MindBloom | *Next.js, TypeScript, Supabase, FastAPI, Vercel, AWS, Docker*
- Built an AI-powered collaborative brainstorming tool with real-time mindmaps, cutting ideation time by **50%**
- 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 and **OpenAI API** for smart branch-based suggestions
- Deployed frontend on **Vercel** and backend on **AWS ECS** using **Docker** containers for scalable production delivery

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 that uses **Gemini API** to process content in **<500ms** with **95%** accuracy
- Developed an accessible React and Tailwind interface that significantly improved navigation for elderly users

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*