

Johannes Tampere

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SKILLS

Languages: Python, JavaScript, Typescript, C/C++, SQL, HTML5, CSS3

Libraries & Frameworks: React.js, Next.js, Tailwind CSS, Express.js, FastAPI, Pandas, Zustand, Scikit-learn

Technologies: Git, Supabase, MySQL, MongoDB, VS Code, Jupyter Notebook, Linux CLI Tools

EXPERIENCE

Delfi Media

Tallinn, Estonia

Data Analysis Intern

June – August 2023

- Analyzed **10,000+** Estonian news articles using Python and EstNLTK to identify sentiment and trends, directly shaping editorial strategies and topical coverage
- Developed **custom NLP tools** to extract, lemmatize, and disambiguate person names from article text, powering accurate long-term analysis of public figures in media
- Analyzed behavioral data of **30,000+** users using Pandas, NumPy, and SciPy to identify **key engagement drop-off signals** prior to unsubscribing
- Trained a churn prediction model using **scikit-learn** with **random forest classification**, leading to more targeted user retention campaigns

PROJECTS

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

- Led a team of 4 to build an AI-driven platform that identifies racial and gender bias in customer support calls, **winning the P&G x NSBE Sponsor Award** from 500+ participants
- Designed a full-stack web app using Next.js and Tailwind CSS, enabling companies to simulate customer interactions with various AI-generated voice parameters, including accent, pitch, and gender
- Developed a scalable backend with Express.js and Node.js to coordinate real-time voice calls through Twilio and store interaction data in MongoDB
- Used Cohere Command R+ to analyze sentiment and summarize responses, allowing organizations to detect employee bias from transcribed call data

136Notes 🐙 | *Next.js, MongoDB, Tailwind CSS, Flask, Three.js, OAuth*

- Developed a full-stack note-taking app for linear algebra students using Next.js, React, Express.js, and MongoDB, enabling users to create, save, and revisit math-rich notes with LaTeX formatting
- Set up a scalable backend with **Mongoose models** and **RESTful API endpoints**, streamlining data access and manipulation
- Designed a **modern, responsive UI** with Tailwind CSS and **reusable React components**, improving usability across desktop devices
- Integrated MathJax and Three.js for **dynamic rendering** of equations and 2D/3D graphs, enhancing learning outcomes for visually-oriented users

MindBloom 🐙 | *Next.js, TypeScript, FastAPI, OpenAI API, Zustand, D3.js*

- Currently building a real-time collaborative brainstorming platform that helps creative teams turn scattered thoughts into clear directions via dynamic mindmaps and AI-guided suggestions
- Architecting a full-stack web app using Next.js and FastAPI, enabling interactivity with live sync via Supabase and PostgreSQL
- Integrating OpenAI API to auto-generate subtree-specific ideas, accelerating team decision-making
- Using Zustand to handle complex client-side state including active nodes, real-time edits, likes, and user activity

EDUCATION

University of Waterloo

Waterloo, Ontario

Honours Bachelor of Computer Science

September 2024 – May 2029

- Relevant Coursework: *Object-Oriented Software Development, Algorithm Design, Tools & Techniques for Software Development, Honours Math courses*