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, AWS

EXPERIENCE

Delfi   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
- Engineered a **scalable full-stack architecture** using Next.js, Express.js, Node.js, and MongoDB to support real-time call analysis and data storage
- Integrated Twilio for live call simulation and Cohere's Command R+ API to **extract** sentiment insights and **generate** smart response summaries

136Notes | *Next.js, MongoDB, Tailwind CSS, Flask, Three.js, OAuth*
- Solo-developed a full-stack note-taking app for linear algebra students, featuring LaTeX rendering and interactive graphs using Next.js, Flask, and MongoDB, to boost productivity and intuition
- Integrated **MathJax** and **Three.js** for LaTeX support and graph rendering
- Designed a **responsive UI** with Tailwind CSS and reusable components for smooth user experience across devices

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

johannestampere.com | *Next.js, TypeScript, Tailwind CSS, AWS, Framer Motion*
- Built and deployed a modern portfolio website using Next.js, TypeScript, and Tailwind CSS, featuring **responsive design** and a sleek dark theme
- Integrated smooth animations and interactive elements using Framer Motion to showcase projects with **engaging user experience** across all devices
- Deployed to production via **AWS S3** for static hosting and **Route 53** for custom domain routing, ensuring global accessibility and fast load times

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*