

TUOMAS HATAKKA

An exceptional lead full-stack developer with extensive experience in front-end development, strong communication skills, and a relentless passion for creating innovative solutions. AI-native with state-of-art knowledge of the most recent bleeding edge LLM technologies. Seeking opportunities to leverage expertise in both front-end and back-end technologies to drive impactful projects and contribute to dynamic teams.

PROFESSIONAL EXPERIENCE

FULL STACK DEVELOPER

Easywaste Oy & Freelancing, February 2024 - September 2025

- Pioneered complete technical transformation of Easywaste's digital waste management platform as sole developer for six months, migrating from legacy consultancy-maintained v1 system to modern Next.js architecture.
- Built comprehensive AI-powered invoice analysis engine from ground up, integrating Gemini API for multimodal document processing, Finnish Finvoice/Peppol XML parsing, and custom OCR pipeline for automated waste categorization across fraction types with intelligent weight/amount estimation algorithms.
- Architected 4-phase extraction pipeline processing invoices through core data extraction, dependent data handling, document hierarchy analysis, and async 14-row batch processing, utilizing NDJSON streaming for real-time progress updates.
- Developed enterprise-grade business logic including automated tendering with dynamic commission calculation (up to 25% algorithmic pricing), contract lifecycle management, multi-tier subscription models (€0-€24/location), and CSRD compliance reporting.
- Early adopter of cutting-edge AI development tools (Cline/Roo-Cline, Continue.dev, LangChain/LangGraph) for AI agent orchestration, significantly accelerating development velocity while maintaining code quality.
- Implemented complete infrastructure stack including Next.js 14 with App Router, RSC, Supabase backend, Vercel deployment, GitHub Actions CI/CD, DNS configuration, and multi-tenant database architecture.
- Delivered multiple modern freelance projects featuring AI-powered capabilities with, function calling, and comprehensive cloud architecture.



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EDUCATION

Bachelor of Science in Electrical and Electronics Engineering
Aalto University, *Espoo, Finland*

LANGUAGES

- Finnish (Native)
- English (Fluent)
- Swedish (Fluent)
- German (Mid-range proficiency)

SKILLS

TECHNICAL SKILLS

- All major TUI's and CLI's for LLM prompting: Claude Code, Gemini CLI, OpenCode, Codex,...
- Typescript, ECMAScript; Bun, Node, Deno
- React, React Native
- MySQL, PostgreSQL, MongoDB, SQLite, Firebase, GraphQL
- HTML5, CSS, SCSS, Less, CSS modules. DOM Model, Responsive Design
- UI/UX Design
- REST APIs
- Python (Django and native)
- Playwright, Jasmine, Jest
- Webpack, Vite, Turbopack

SOFTWARE CONSULTANT

HiQ Finland, February 2022 - December 2023

- Spearheaded both front-end development as well as back-end development on major international projects, including a first-place award-winning design system.
- Collaborated with multinational clients to deliver cutting-edge solutions, showcasing expertise in React, TypeScript, GraphQL, and different microservices & backends.
- Played a lead architecture role, guiding teams in implementing scalable and efficient front-end solutions. Held multiple lectures in internal frontend meetings.

FRONT END DEVELOPER

Nordhealth, May 2016 - January 2022

- Led front-end architecture in triage projects, ensuring seamless integration and functionality for multinational clientele. All projects included development work in both front end and back end sides of the applications.
- Contributed to the development of robust web applications using React, TypeScript, GraphQL, different SQL architectures (PostgreSQL, MySQL), Django & Django REST, and NodeJS with ExpressJS.
- Worked closely with cross-functional teams to deliver high-quality, user-centric products.

FREELANCER WEB DEVELOPER

Self-employed, January 2011 - May 2016

- Successfully completed numerous website development and web application projects for diverse clients. All projects included both front end and back end work.
- Demonstrated proficiency in PHP, jQuery, WordPress, Django, MySQL, CSS, and HTML.
- Notable projects include custom course enrollment software, and social media integrations for various clients.

TECHNICAL SKILLS

- All major cloud providers; Google Cloud Platform, Azure, AWS
- Vercel edge functions, Cloudflare CDN, SSL/TLS optimization
- Many different authentication frameworks, including Token authorization
- Stripe payments
- CI/CD pipelines: Github workflows, even Jenkins
- PHP

PROJECT HISTORY

EASYWASTE DIGITAL WASTE MANAGEMENT PLATFORM

- Architected and built from ground up comprehensive AI-powered invoice processing system integrating Google Gemini API, Finvoice/Peppol XML parsing, and custom OCR for automated waste fraction categorization and cost calculation.
- Developed complete business platform including automated tendering engine with algorithmic commission pricing, contract management, equipment tracking, subscription billing, and CSRD compliance reporting using Next.js 14, TypeScript, Supabase, and Vercel.
- Implemented 4-phase extraction pipeline with async batch processing, NDJSON streaming, intelligent fallback detection with Finnish/English keyword mappings, and comprehensive weight/amount estimation algorithms.
- Technologies: Next.js 14, TypeScript, React Server Components, Google Gemini API, Supabase, PostgreSQL, Vercel, shadcn/ui, Qvalia API, AI SDK, LangChain, GitHub Actions.

MODERN AI-POWERED FREELANCE PROJECTS

- Delivered multiple cutting-edge web applications featuring AI capabilities with OpenAI GPT-4, Anthropic Claude, and streaming multimodal responses with function calling.
- Architected full-stack solutions using Next.js 15, React 19, Supabase, serverless edge functions, and comprehensive infrastructure including DNS, SSL/TLS, CDN optimization, and cloud architecture.
- Technologies: Next.js 15, React 19, TypeScript, Supabase, OpenAI API, Anthropic Claude API, Vercel, Cloudflare, Docker, LangGraph.

HELSINKI DESIGN SYSTEM

- Contributed to various development tasks and bug fixes, ensuring compliance with WCAG2.1 standards using TypeScript, React, and GraphQL.

TELIA B2B E-COMMERCE

- Collaborated on development tasks and updates, including payment integration and cooperation with Telia's design system, utilizing TypeScript, React, and GraphQL.

HIQ'S INTERNAL E-COMMERCE TRIAGE

- Architected and implemented front-end solutions for an e-commerce service using TypeScript, React, and GraphQL.

DEVELOPMENT TOOLS

- Git (Git Flow/command line Git; GitLab, GitHub)
- Shell scripting
- DevOps Principles
- CI/CD (GitHub Actions)
- Atlassian services

ADDITIONAL SKILLS

- Full-stack development
- User interface prototyping and design (Mobile and Web)
- WordPress
- Adobe Creative Suite

WATTIVAHTI

- Developed features for real-time electricity consumption monitoring app using React, Redux, and ExpressJS.

NAVISEC HEALTH

- Led front-end architecture and implemented notable features including a Form Builder Tool and real-time websocket chat using Django Rest, React, and Redux.
- Project development included back-end development with Django REST, high quality ORM's, PostgreSQL, and working with Google Cloud Platform.

VIIIVI HEALTH

- Led architecture and implementation of mobile and web applications for veterinarian video reception triage service using React Native, React, and ExpressJS.
- Project also included real-time reservation system with Stripe integration and working with Google Cloud Platform.

PROVET CLOUD

- Contributed to agile development for multinational clientele as a first front-end developer for the company, implementing features such as a form builder tool and websocket chat using React, Redux, Django, Django REST, and PostgreSQL with multiple tenants.

KAVI ELONET

- Overhauled Finnish National Audiovisual Institute movie archive web application's codebase.
- Formed and developed a new design for the web application.
- Implemented video streaming with captions using PHP and Finna.

FREELANCING PROJECTS

- Tens of website development projects & multiple web application implementations. Clients included Suomen Talousverkko, Tuusulan seurakunta, Nurmijärven seurakunta, UP Suomi Oy, Villa Tammikko and others.
- Notable features: Custom course enrolment software with live enrolment, multiple social media integrations.
- Technologies used: Next.js, React, React Native, Electron, PHP, jQuery, WordPress, Django, MySQL CSS, HTML.