

Harry Rauramo

Senior Software Engineer and AI specialist with 9+ years of experience designing, developing, and deploying scalable backend systems.

Innovative AI and software engineer with experience leveraging AI tools like ChatGPT, OpenAI API, GitHub Copilot, V0 and Hugging Face to accelerate software development, automate workflows, and build intelligent applications. Skilled in backend engineering, AI model integration, and building scalable, data-driven systems. Experienced in casino platform development, real-time APIs, and AI-enhanced automation.

Expertise in microservices, distributed systems, cloud-native architectures, and AI/ML integration.

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WORK EXPERIENCE

Remote

AI Engineer

Jun 2023 ~

- Built a full-stack AI-powered casino platform with live games, slots, and wallet integrations.
- Designed ML-based recommendation systems to personalize game suggestions and bonus offers.
- Developed fraud detection pipeline using Python and XGBoost to detect unusual player behaviors.
- Integrated multi-currency wallet systems with secure fiat and crypto payment gateways.
- Deployed AI-enhanced player retention systems leveraging historical engagement data.
- Implemented provably fair smart contracts for RNG verification on Ethereum blockchain.
- Managed scalable infrastructure using Docker, Kubernetes, and AWS (ECS, Lambda, RDS).
- Developed a 3-reel slot machine game with Python-based RNG and AI-driven outcome validation.
- Integrated AI dynamic difficulty adjustment (DDA) to adapt odds and enhance player engagement.
- Deployed Node.js backend with Phaser.js frontend visuals for real-time gameplay.
- Implemented fairness analytics dashboards powered by Python (Pandas + Matplotlib).
- Built real-time APIs for sports data streaming and bet tracking.
- Integrated AI models for odds prediction and dynamic risk management using TensorFlow.
- Implemented fraud detection and payment anomaly detection pipelines.
- Collaborated with DevOps team to deploy scalable ML services on GCP Vertex AI.
- Designed AI-powered live feed ranking system for sports event prioritization.
- Used LangChain + OpenAI for content moderation and responsible gaming analysis.
- Created AI-driven analytics pipelines using TensorFlow and OpenAI embeddings for user behavior prediction and retention tracking.

Parallel Finance

Software Engineer

Aug 2021 ~ May 2023

- Designed and deployed AI-driven features (recommendation systems, NLP models, and predictive analytics) into large-scale backend systems.
- Architected and maintained microservice-based APIs (FastAPI + Ruby) serving ML inference at scale.
- Developed MLOps pipelines with Docker, MLflow, and Kubernetes —enabling continuous training and deployment.
- Collaborated with product and data teams to transform research prototypes into production-ready software.
- Optimized backend performance via caching (Redis) and async processing (Celery, Kafka).
- Built CI/CD workflows on GitHub Actions and deployed on AWS (EKS, Lambda, RDS).
- Built real-time monitoring for model drift, accuracy, and latency using Prometheus and Grafana.
- Managed data lifecycle — collection, preprocessing, and feature engineering — using Pandas, Spark, and Airflow.
- Developed and maintained web applications using Next.js, Ruby, Firebase, and Node.js improving site performance and user experience.

CopperBirch IT

Full-Stack Developer

Jan 2018~Jul 2021

- Built a decentralized web platform with Next.js frontend and Node.js backend.
- Built a decentralized web platform with Rust backend and React frontend, integrating Figma designs into a responsive UI.
- Built a decentralized web platform with Laravel backend and Vue frontend, integrating Figma designs into a responsive UI.
- Developed scalable backend solutions using Node.js, Django, and Spring Boot.
- Designed database schemas and optimized queries for PostgreSQL and MongoDB.
- Deployed ML services on GCP (Vertex AI + Cloud Run) with automatic scaling and versioning.
- Collaborated with data scientists to turn research prototypes into production-grade systems.

Upwork & Freelancer

Freelancer

Apr 2016~Dec 2017

- Delivered over 8 client projects, including e-commerce sites, SaaS dashboards, and interactive web applications.
- Enhanced user experience through responsive design and real-time data visualization.
- Integrated third-party APIs for payments, authentication, and analytics.

EDUCATION

University of Oulu

2010~2014

Bachelor of science in computer engineering

Master's degree

2014~2016

PROJECT

<https://piovis.com/>

- Business advisory, end to end delivery excellence, coaching and mentoring services

<https://www.luckydreams.com/>

- Online casino that offers a variety of games, including online slots, table games, and live casino games

<https://www.livescorebet.com/uk/>

- Online betting website that offers live betting and online sports odds

<https://myrabidreality.com/>

- Non-profit streaming video on demand service that offers a variety of content

<https://billfox.de/>

- The clever billing software for osteopathic alternative practitioners

<https://iconscout.com/>

- A website that provides design assets

<https://www.hepsiburada.com/>

- One of the largest online shopping site in Turkey

<https://usdfx.org/>

- The website which aims to revolutionize fintech and web3 to facilitate B2B payments

<https://grupoebim.com/>

- Subscribe to EBIM News and stay up to date with the latest technology news.

<https://cryptobase-5c326.web.app/>

- Simple Create React App

SKILLS

Frontend:

React, Next.js, Vue.js, Angular, Tailwind CSS, Bootstrap, HTML5, CSS3, SASS, JavaScript (ES6+), TypeScript, Webpack, Vite, Storybook, Framer Motion

Backend:

Node.js, Express.js, NestJS, Ruby on Rails, Django, Flask, Rust, Golang, RESTful APIs, GraphQL, WebSockets, Microservices

Databases:

PostgreSQL, MySQL, MongoDB, Redis, Firebase, DynamoDB

AI & Machine Learning:

TensorFlow, PyTorch, scikit-learn, XGBoost, Hugging Face, OpenAI, ChatGPT, LangChain, Copilot, RAG, NLP, CV, AI-driven game logic

Cloud & DevOps:

Docker, Kubernetes, Helm Charts, AWS (EC2, Lambda, S3, RDS, SageMaker, CloudWatch, IAM), GCP (Compute Engine, Vertex AI, Cloud Functions), Azure (App Services, Azure Functions, Cosmos DB), CI/CD (GitHub Actions, Jenkins, GitLab CI/CD, CircleCI)

Testing & Quality:

Jest, Mocha, Chai, Cypress, Selenium, Playwright, ESLint, Prettier, Test-Driven Development (TDD)

AI & Automation Tools:

ChatGPT, GitHub Copilot, AI-assisted testing, automated code generation, AI-driven bug detection

Other Tools:

Git, GitHub, GitLab, Jira, Confluence, Slack, Notion, Figma, Adobe XD, Postman, Insomnia, Web3 tools (Metamask, Solidity)

Blockchain Tech:

Solidity (Ethereum), Rust (Solana)