Mihkel Putrinš

Senior Frontend Platform Engineer | Infrastructure & Developer Tooling Specialist

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Professional Summary

Senior software engineer with **15+ years of platform development experience**, specializing in building systems, tools, and infrastructure that enable engineering teams to deliver high-quality software efficiently. Proven track record of leading platform initiatives serving 30+ organizations, implementing CI/CD pipelines, and fostering developer productivity through automation and modern DevOps practices.

Core Expertise: - Platform & Infrastructure Development (15+ years) - CI/CD Pipeline Design & Optimization - Developer Tooling & Automation - Cloud Infrastructure (AWS, Docker) - JavaScript/TypeScript/Node.js (9/10 proficiency) - Team Leadership & Mentoring

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Technical Skills

Platform & Infrastructure

- **Developer Tooling:** Build systems, automation, internal tools at scale
- **CI/CD:** GitHub Actions, deployment automation, pipeline optimization
- **Containerization:** Docker (production deployments), containerization-ready architecture
- **Cloud Platforms:** AWS (CloudFront CDN, cloud deployments), DigitalOcean
- **Monorepo & Build Systems:** Modern build tooling, static site generation, multi-project architectures

Languages & Frameworks

- **JavaScript/TypeScript:** 15+ years, proficiency 9/10
- **Node.js:** 15+ years backend development, API design, microservices
- **Frontend:** Vue.js (production experience), framework-agnostic approach
- **Python:** Data pipelines, automation scripts, system integration

Databases & Systems

- **NoSQL:** MongoDB (production, 15+ years)
- **SQL:** PostgreSQL (production)
- **Search:** Elasticsearch (real-time data pipelines)
- **Architecture:** RESTful APIs, microservices, multi-tenant systems

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Professional Experience

Entusiastid OÜ | Founder / Lead Developer

2010 – Present (15 years) | Tallinn, Estonia

Entu Platform - Data Management Platform for 30+ Organizations

Led the design, development, and evolution of a comprehensive data management platform serving 30+ organizations, demonstrating 15 years of continuous platform innovation and developer enablement.

Platform Development & Infrastructure: - Architected and maintained **large-scale JavaScript/Node.js platform** serving 30+ organizations - Built comprehensive **tooling ecosystem:** API server, CMS, static site generator, plugins, import tools, maintenance utilities - Designed **multi-tenant architecture** with flexible data structures and user permission management - Implemented **cloud-ready, containerization-compatible** deployment architecture - Evolved platform from Python (archived) to modern **Node.js microservices architecture**

Developer Experience & Tooling: - Created **developer-facing tools** enabling organizations to customize and extend platform capabilities - Built **plugin system** (Vue.js components) for extensibility without core modifications - Developed **import/migration tools** for seamless data onboarding - Implemented **RESTful API-first architecture** for flexible integration - Maintained **open-source ecosystem** on GitHub (organization with multiple repositories)

Infrastructure & DevOps: - Deployed and managed **30+ production instances** across different organizations - Implemented **scalable cloud architecture** on AWS - Designed **multi-environment deployments** (development, testing, production) - Enabled **self-service deployment** capabilities for client organizations

Technologies: Node.js, JavaScript, TypeScript, Vue.js, MongoDB, RESTful APIs, AWS, Docker, Git

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Ilusa Koodi Instituut (PÖFF) | Development Lead

August 2021 – October 2024 (3+ years) | Tallinn, Estonia

Led technical architecture and development team for **Black Nights Film Festival (PÖFF)** - one of Europe's largest film festivals, responsible for digital infrastructure serving international audiences.

Team Leadership & Mentoring: - Led **4-member development team** for festival platform development - Mentored interns and guided professional development with **100% conversion rate** (4/4 interns hired full-time) - Provided technical guidance, code reviews, and best practices training - Fostered collaborative development culture and knowledge sharing

Infrastructure & Platform Development: - Architected **multi-domain platform** infrastructure: poff.ee, justfilm.ee, kinoff.ee, industry.poff.ee, shorts.poff.ee - Designed **Node.js/JavaScript-based architecture:** Strapi CMS backend, static site generator, PostgreSQL database - Implemented **deployment automation** using shell scripts and database backup workflows - Deployed **AWS CloudFront CDN** for global content delivery and performance

CI/CD & Automation: - Created **deployment pipeline** for multiple festival domains - Automated **database backup** and recovery procedures - Implemented **shell scripting** for

build and deployment automation - Managed **development, staging, and production environments**

Technologies: Node.js, JavaScript, Strapi CMS, PostgreSQL, Pug templating, Stylus, AWS CloudFront, Shell scripting, Git

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Eesti Mälu Instituut | Data Curator

2017 − 2024 (7 years) | Tallinn, Estonia

Elasticsearch Real-Time Data Pipeline (2020)

Designed and implemented a real-time data publication system enabling historical data availability on memoriaal.ee and wwii-refugees.ee websites.

Infrastructure & Pipeline Development: - Architected **end-to-end data pipeline** with Elasticsearch, Docker, Python, and JavaScript - Deployed **Docker containerized infrastructure** on DigitalOcean - Implemented **real-time publication** with 5-minute update latency serving **100,000+ records** - Created **isolated development, test, and production environments** - Built **custom Python scripts** for data upload automation - Developed **JavaScript-based read-only access** for web applications

DevOps & Deployment: - Managed **Docker-based deployment** with environment isolation - Implemented **automated data synchronization** pipelines - Ensured **high availability** and data consistency across environments - Designed **scalable architecture** for growing data volumes

Technologies: Elasticsearch, Docker, Python, JavaScript, DigitalOcean, data pipelines, automation

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Eesti Kunstiakadeemia | Head of IT Department

August 2009 − August 2012 (3 years) | Tallinn, Estonia

Infrastructure Leadership: - Managed university IT infrastructure including **intranet, email systems, and internal applications** - **Planned and built campus-wide LAN network** spanning multiple buildings, connecting **700+ users** - Migrated entire university (700 users) to **Google Mail and Google Docs**, reducing email costs by 90%

Platform Implementation: - Implemented and customized **Entu platform** for multiple university applications: - **Inventory management** tracking 5,000+ assets - **Degree paper archiving** managing 500+ documents annually - **Library systems** with secure storage and retrieval - Adapted platform to diverse needs from physical asset tracking to sensitive academic records

Technologies: LAN network infrastructure, Google Workspace, Entu platform, system administration

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Eesti Keele Instituut | Senior System Analyst

April 2017 – April 2018 (1 year) | Tallinn, Estonia

Project: EKI-ASTRA Dictionary and Terminology Database System (EKILEX)

- Managed software development for EKILEX dictionary and terminology database system
- Provided technical supervision and system analysis for language resource platform
- Repository: github.com/keeleinstituut/ekilex

Technologies: Java JDK 17, Spring Boot, Spring Framework, Spring Security, Thymeleaf, Jooq, PostgreSQL

Tartu Ülikool | Scientific Programmer

November 2014 – September 2015 | Tartu, Estonia

Project: MOLA-DANET Population Movement Research System

- Developed web applications for historical research data management and visualization
- Built database systems for population movement analysis

Technologies: Python, JavaScript, database management, scientific computing

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Education

Tallinna Tehnikaülikool (Tallinn University of Technology)

Bachelor's Degree in Computer Systems | 2002 – 2009

Tallinna Tehnikakõrgkool (Tallinn University of Applied Sciences)

Professional Higher Education in Instrument Engineering | 1999 – 2001

Key Achievements

Platform Development & Scale

- **15 years continuous development** of Entu platform serving 30+ organizations
- Built **tooling ecosystem** with multiple open-source repositories
- Implemented **multi-tenant architecture** with flexible customization
- Achieved **100% intern-to-hire conversion rate** through mentoring (PÖFF)

Infrastructure & Automation

- Deployed **Docker-based real-time data pipeline** serving 100,000+ records
- Built **campus-wide LAN network** for 700+ users (Estonian Art Academy)
- Implemented **AWS CloudFront CDN** for international festival platform (PÖFF)
- Created **multi-environment deployment** workflows with automation

Developer Enablement

- Designed **API-first architecture** enabling extensibility and integration
- Built **plugin system** for developer customization without core changes
- Developed **import/migration tools** for seamless platform adoption
- Led **4-member development team** with focus on growth and best practices

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Languages

- **Estonian:** Native
- **English:** Fluent (C2)
- **Russian:** Fluent (B2)
- **Latvian:** Fluent (C2)
- **Finnish:** Basic (A2, learning)

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Open Source Contributions

- **Entu Platform:** github.com/entu (organization with multiple repositories)
- **PÖFF Web Platform:** github.com/poff-bnff/web2021 (contributor @mitselek, 13 total contributors)
- **EKILEX:** github.com/keeleinstituut/ekilex (dictionary and terminology database)

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Professional Interests

- Developer experience optimization and tooling
- CI/CD pipeline architecture and automation
- Platform engineering and infrastructure design
- Team mentoring and technical leadership
- Open-source ecosystem development

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References available upon request