

Ziga Drev

Senior Full Stack Software Engineer

SUMMARY

- 10+ years of experience delivering scalable SaaS platforms and cloud-native systems using React, TypeScript, Python (FastAPI, Django), Node.js, and AWS.
- Proven expertise in legacy system modernization, reducing API response times from 3s to under 1.8s by migrating C#/.NET services to modern microservices.
- Strong in system design, distributed systems, event-driven architectures with Kafka, Celery, Redis, and performance optimization.
- Skilled in full SDLC ownership, CI/CD pipelines, containerization (Docker, Kubernetes), and infrastructure as code for reliable cloud deployments.

TECHNICAL SKILLS

Main Technical Skills	React, TypeScript, Python, FastAPI
Programming Languages	JavaScript, Python, TypeScript
JavaScript Frameworks	Angular, Express, NestJS, React
.NET Platform	ASP.NET Core Framework, Entity Framework, Identity Server
C++ Libraries and Tools	C/C++/C#
Python Frameworks	Django REST framework, FastAPI, Flask
JavaScript Libraries and Tools	Expo, React Context, React Hooks, React Query, Redux-Saga
AI & Machine Learning	OpenAI, RAG
Python Libraries and Tools	pytest
Salesforce Ecosystem	SalesForce Workflow
Data Analysis and Visualization Technologies	Presto S3
Databases & Management Systems / ORM	Firebase Realtime Database, HDFS, MongoDB, MySQL, Sphinx
UI Frameworks, Libraries, and Browsers	Ant Design, CSS3, HTML5, Material UI, Semantic UI, Storybook, Tailwind CSS
Cloud Platforms, Services & Computing	GCP
Amazon Web Services	AWS API Gateway, AWS Cloudformation, AWS EC2, AWS Lambda

Azure Cloud Services	Azure VM
Google Cloud Platform	Firebase Realtime Database
Industry Domain Experience	Embedded, seo
Methodologies, Paradigms and Patterns	Agile, microservices, microservices architecture, Scrum, SDLC, Solution Architecture Design, SSR, TDD
SDK / API and Integrations	API, AWS API Gateway, FastAPI, GraphQL, JWT, OAuth, RESTful API
Payment Gateways	Authorize.Net
Deployment, CI/CD & Administration	CD DevOps pipelines, Helm, Jenkins
Message/Queue/Task Brokers	Celery, Kafka
QA, Test Automation, Security	Code Review, Cypress, End 2 end testing, Jest, pytest, QA Automation, Unit Testing, Usability tests
Virtualization, Containers and Orchestration	Docker, Kubernetes
Version Control	Github Actions
Mail / Network Protocols / Data transfer	JWT, WebRTC, WebSockets
Blockchain and Decentralized Software	Optimism
UI/UX/Wireframing	Responsive Design
Web/App Servers, Middleware	SPA
Other Technical Skills	Caching, EKS/ECS, Legacy Application, Monitoring, RDS, SSG, Teamwork

WORK EXPERIENCE

Senior Software Engineer - Pagepro (SaaS platforms and customer-facing applications delivery)

Duration: Mar 2021 - Present

Summary:

- Delivered SaaS platforms, customer-facing web applications, internal portals, and mobile products for clients across FinTech, HealthTech, MarTech, e-commerce, and digital product environments
- The projects involved building scalable backend services, modern frontend applications, and cloud-native product delivery on AWS, improving performance and maintainability



Responsibilities:

- Built scalable backend services with Python and FastAPI for various workflows including payment, healthcare scheduling, analytics dashboards, and third-party integrations.
- Developed modern frontend applications using React, Next.js, TypeScript, and GraphQL with reusable components and improved state management.
- Collaborated with engineering leads, product owners, and client stakeholders to redesign APIs, workflows, and frontend experiences.
- Optimized high-traffic React applications to reduce page load times and improve performance.
- Improved real-time analytics and operational dashboards using React, FastAPI, Redis, PostgreSQL, and WebSocket updates.
- Developed cross-platform features using React Native and Expo, reusing business logic across web, iOS, and Android.
- Built and maintained REST and GraphQL APIs supporting various business tools and workflows.
- Supported cloud-native product delivery on AWS using Docker, Kubernetes, ECS, Lambda, API Gateway, RDS, S3, GitHub Actions, and CI/CD pipelines.
- Built AI-supported recommendation, semantic search, content discovery, and automation features using Python services and embeddings.
- Maintained unit, integration, and end-to-end tests using Pytest, Jest, and Cypress.
- Reviewed pull requests, supported less experienced engineers, and collaborated across teams and stakeholders.

Technologies: React, Next.js, TypeScript, Python, FastAPI, Node.js, PostgreSQL, Redis, AWS (Lambda, ECS, EC2, API Gateway, RDS, S3), Docker, Kubernetes, GitHub Actions, CI/CD pipelines, GraphQL, React Native, Expo, Pytest, Jest, Cypress

Full Stack Engineer - Madwise (MarTech and B2B SaaS platforms modernization and development)

Duration: Oct 2018 - Feb 2021

Summary:

- Helped build and scale MarTech and B2B SaaS platforms supporting lead generation, campaign management, CRM workflows, customer segmentation, marketing automation, reporting, and analytics
- Modernized legacy C#/.NET systems by migrating business-critical services into modern microservices and improved performance and automation

Responsibilities:

- Modernized legacy C#/.NET systems by migrating services into Python, FastAPI, Flask, Django, and NestJS microservices.
- Built backend services for campaign orchestration, automation workflows, analytics processing, CRM synchronization, and reporting.
- Developed customer-facing dashboards and internal tools using React, Next.js, TypeScript, and reusable UI components.
- Planned phased modernization approach with technical leads and stakeholders to address gaps in legacy architecture.
- Replaced synchronous workflows with Celery workers, Redis queues, and background processing pipelines.
- Optimized PostgreSQL queries, indexes, and reporting structures to improve dashboard response times.



- Integrated CRM platforms, advertising tools, email marketing systems, analytics providers, authentication services, and external APIs.
- Contributed to AI-assisted lead scoring, campaign optimization, and recommendation features with Python-based data processing.
- Worked across frontend, backend, cloud infrastructure, production support, product discussions, and customer requirements.

Technologies: C#/.NET, Python, FastAPI, Flask, Django, NestJS, Node.js, React, Next.js, TypeScript, PostgreSQL, Redis, Celery, REST APIs

Back End Developer - Cosylab (Scientific, medical, industrial, and enterprise engineering systems development)

Duration: Oct 2015 - Sep 2018

Summary:

- Developed software for scientific, medical, industrial, and enterprise engineering systems requiring reliability, precision, data consistency, and maintainability
- Built backend services and APIs for distributed engineering platforms and internal operational tools, supporting telemetry workflows and real-time data movement

Responsibilities:

- Built backend services using C#/.NET, ASP.NET, Entity Framework, SQL Server, and REST APIs for distributed engineering platforms and enterprise systems.
- Adapted to specialized domains such as scientific control systems, industrial workflows, telemetry, and medical technology.
- Designed and maintained APIs and data models connecting backend services, frontend tools, device components, and enterprise integrations.
- Implemented event-driven processing with Kafka for telemetry workflows and real-time data movement.
- Optimized SQL Server queries, indexes, and transaction handling to improve database performance.
- Developed Angular-based internal interfaces and operational tools for engineering teams.
- Collaborated with engineering leads, operators, and subject-matter experts to clarify requirements and finalize service behavior.
- Participated in modernization initiatives involving Docker deployments, automated build pipelines, and service-oriented architecture.
- Investigated production and integration issues, performed root-cause analysis, and implemented long-term fixes to improve platform reliability.

Technologies: C#/.NET, ASP.NET, Entity Framework, SQL Server, REST APIs, Kafka, Angular, Docker

EDUCATION

- **Bachelor of Computer Science**
University of Maribor, Maribor, Slovenia
Oct 2012 – Oct 2015

