

Ziga Drev

Senior Full Stack Software Engineer

SUMMARY

- Full Stack Engineer with 10+ years of experience delivering scalable SaaS platforms and cloud-native systems using React, TypeScript, Python, FastAPI, Django, Node.js, PostgreSQL, Redis, 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 architectures.
- Strong background in system design, distributed systems, event-driven workflows with Kafka, Celery, and Redis, improving performance and reducing blocked API requests by 40%.
- Skilled in cross-platform development with React Native and Expo, cutting duplicated implementation by 25% while maintaining consistent UX across web and mobile.

TECHNICAL SKILLS

Main Technical Skills	React (5 yr.), TypeScript (5 yr.), Python (5 yr.), FastAPI (5 yr.), Django REST framework (3 yr.)
Programming Languages	JavaScript (5 yr.), Python (5 yr.), TypeScript (5 yr.), VBA (3 yr.)
JavaScript Frameworks	Angular (3 yr.), Express (3 yr.), Ext JS (5 yr.), NestJS (3 yr.), React (5 yr.)
.NET Platform	ASP.NET Core Framework (3 yr.), Entity Framework (3 yr.), VBA (3 yr.)
C++ Libraries and Tools	C/C++/C# (3 yr.)
Python Frameworks	Django REST framework (3 yr.), FastAPI (5 yr.), Flask (3 yr.)
JavaScript Libraries and Tools	Expo (3 yr.), p5.js (5 yr.), React Context (3 yr.), React Hooks (3 yr.), React Query (3 yr.), Redux-Saga (3 yr.)
AI & Machine Learning	OpenAI (3 yr.), RAG (3 yr.)
Python Libraries and Tools	pytest (5 yr.)
Salesforce Ecosystem	SalesForce Workflow (3 yr.)
Data Analysis and Visualization Technologies	Presto S3 (5 yr.)
Databases & Management Systems / ORM	Firebase Realtime Database (5 yr.), HDFS (5 yr.), MongoDB (3 yr.), MySQL (3 yr.), Sphinx (3 yr.)

UI Frameworks, Libraries, and Browsers	Ant Design (5 yr.), CSS3 (5 yr.), HTML5 (5 yr.), Material UI (3 yr.), Semantic UI (3 yr.), Storybook (3 yr.), Tailwind CSS (3 yr.)
Cloud Platforms, Services & Computing	GCP (5 yr.)
Amazon Web Services	AWS API Gateway (5 yr.), AWS Cloudformation (5 yr.), AWS EC2 (5 yr.), AWS Elastic Kubernetes Service (EKS) (5 yr.), AWS Lambda (5 yr.)
Azure Cloud Services	Azure VM (5 yr.)
Google Cloud Platform	Firebase Realtime Database (5 yr.)
Industry Domain Experience	Embedded (3 yr.)
UI/UX/Wireframing	3D Modelling (5 yr.)
Methodologies, Paradigms and Patterns	Agile (5 yr.), microservices (5 yr.), microservices architecture (5 yr.), Scrum (5 yr.), SDLC (5 yr.), Solution Architecture Design (5 yr.), TDD (5 yr.)
SDK / API and Integrations	API (3 yr.), AWS API Gateway (5 yr.), FastAPI (5 yr.), GraphQL (5 yr.), JWT (5 yr.), OAuth (5 yr.), RESTful API (5 yr.)
Deployment, CI/CD & Administration	CD DevOps pipelines (5 yr.), Helm (5 yr.), Jenkins (5 yr.)
Message/Queue/Task Brokers	Celery (3 yr.), Kafka (3 yr.)
QA, Test Automation, Security	Code Review (5 yr.), Cypress (5 yr.), End 2 end testing (5 yr.), Jest (5 yr.), pytest (5 yr.), QA Automation (3 yr.), Unit Testing (5 yr.), Usability tests (5 yr.)
Virtualization, Containers and Orchestration	Docker (5 yr.), Kubernetes (5 yr.)
Version Control	Github Actions (5 yr.)
Mail / Network Protocols / Data transfer	JWT (5 yr.), WebRTC (5 yr.), WebSockets (5 yr.)
Blockchain and Decentralized Software	Optimism (5 yr.)
Platforms	Quadiant Automation (5 yr.)
Operating Systems	Unix (3 yr.)
Other Technical Skills	Caching (5 yr.), Legacy Application (5 yr.), Monitoring (5 yr.), RDS (5 yr.), Teamwork (5 yr.)

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.
- Redesigned APIs, workflows, and frontend experiences in collaboration with engineering leads, product owners, and stakeholders.
- Optimized high-traffic React applications to reduce page load times and improve rendering logic.
- 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 and mobile.
- Built and maintained REST and GraphQL APIs supporting various business tools and workflows.
- Supported cloud-native product delivery on AWS with 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 and supported less experienced engineers while collaborating with cross-functional teams.

Technologies: React, Next.js, TypeScript, Python, FastAPI, Node.js, PostgreSQL, Redis, AWS (Lambda, ECS, EC2, API Gateway, RDS, S3), Docker, Kubernetes, GitHub Actions, 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 addressing gaps between legacy architecture and business needs.
- 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, and external APIs.
- Contributed to AI-assisted lead scoring, campaign optimization, and recommendation features.
- Worked across frontend, backend, cloud infrastructure, production support, and product discussions.

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 tools, supporting telemetry workflows and real-time operational software

Responsibilities:

- Built backend services using C#/.NET, ASP.NET, Entity Framework, SQL Server, and REST APIs for distributed engineering platforms and enterprise systems.
- Collaborated with senior engineers, operators, and domain experts to adapt to specialized domains.
- 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.
- 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.

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



EDUCATION

- **Bachelor of Computer Science**

University of Maribor, Maribor, Slovenia

Oct 2012 – Oct 2015

