Andris Siliņš

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Summary

Senior Full-Stack Developer with 9 years of experience delivering high-performance web solutions using *JavaScript* (React, Node.js) and *Python* (Django, Flask).
Expert in architecting cloud-native microservices on *AWS* and *Kubernetes*, driving seamless migrations, rigorous testing, and performance excellence.
Proven leader & mentor in *Agile* environments, translating complex business requirements into modular, accessible, and maintainable applications that align with strategic objectives.

Technical Skills

Programming Languages : JavaScript (ES6+) & TypeScript, Python (Django, Flask), PHP (Laravel)

Frontend Technologies : React (Hooks, Context API, Redux Toolkit), Vue.js (Options API, Composition API), Next.js / Nuxt.js, HTML5, CSS3/SCSS, Tailwind CSS, Bootstrap, Responsive & Accessible UI (WCAG best practices), JavaScript Build Tools (Vite, Webpack)

Backend & API Development : Node.js (Express, Koa), Django & Django REST Framework, Flask microservices, RESTful API Design & Documentation (Swagger/OpenAPI), GraphQL (Apollo Server/Client), Microservices Architecture (Docker, Kubernetes)

Cloud & DevOps : AWS (EC2, Lambda, S3, RDS), Docker & Kubernetes (deployment, orchestration), CI/CD Pipelines (GitLab CI, GitHub Actions, Jenkins), Serverless (AWS Lambda, API Gateway), Version Control (Git, Gitflow workflows)

Additional Tools & Integrations : Figma & Adobe XD (UX/UI collaboration), Payment Gateways (Stripe, PayPal), Third-Party APIs (Google Maps, SendGrid, Twilio), Container Registries & Private Cloud (Docker Hub, AWS ECR)

Work Experience

Senior Full-Stack Developer

Comarch S.A *- Kraków, Poland* *March 2023 ~ April 2025*

- Developed a multi-tenant ERP module using ***React (Hooks, Redux Toolkit, TypeScript)*** for the front end and ***Node.js (Express, TypeScript)*** for the back end, enabling seamless data exchange with Comarch's core financial services.
- RESTful APIs in ***Python (Django 3.x, Django REST Framework)*** to handle invoicing and real-time client reporting, integrating ***PostgreSQL*** and ***Redis*** for caching to ensure sub-second response times on high-volume queries.
- Containerized workloads with ***Docker***, writing ***Dockerfiles*** for each microservice and configuring ***Docker Compose*** for local orchestration, then deployed them to ***Kubernetes (v1.20)*** clusters managed by ***Helm*** charts to streamline scaling and rollbacks.
- Performance-tuning enhancements: optimized complex ***PostgreSQL*** queries with proper indexing and ***EXPLAIN ANALYZE*** analysis, introduced ***Redis*** caching for frequently accessed endpoints, and implemented ***React.lazy*** for code splitting to reduce initial bundle size.
- Automated end-to-end test suites using ***Cypress*** to validate critical user flows—such as invoicing, report generation, and user management—integrating them into the GitLab CI pipeline to catch regressions before release.
- Proof-of-concept integrations for future platform enhancements using ***Serverless (AWS Lambda, API Gateway)*** to evaluate event-driven architectures and assessed ***Kafka*** for high-throughput messaging needs in Comarch's next-generation microservices.

- Responsive UIs in ***React***, implementing Comarch's design system with ***Material-UI*** components, adhering to ***WCAG 2.1 AA*** guidelines and using ***React Router v6*** for client-side routing and ***Formik/Yup*** for form validation.
- Secure authentication flows leveraging ***OAuth2*** protocols and ***JWT***, configuring ***Keycloak*** as the identity provider, and implemented role-based access control (RBAC) in both front-end ***React*** guards and back-end ***Django/Express*** middleware.

Full-Stack Developer

Salesforce *– San Francisco, CA, USA* *October 2020 ~ January 2023*

- Responsive ***Lightning Web Components (LWC)*** using ***JavaScript (ES6+), HTML5 & CSS3***, leveraging ***Salesforce Lightning Design System (SLDS)*** to ensure consistent UI/UX across desktop and mobile views.
- ***Apex REST services*** and ***Apex classes*** to implement custom business logic (triggers, batch jobs, scheduler), utilizing ***SOQL*** and ***SOSL*** for efficient data retrieval and manipulation within Salesforce's multitenant environment.
- Middleware microservices in ***Node.js (Express, TypeScript)*** to integrate ***Salesforce CRM*** with external systems (ERP, marketing automation, and payment gateways), orchestrating secure data synchronization using ***OAuth 2.0*** and ***JWT*** authentication.
- Server-side processes in ***Python (Flask)*** deployed on ***Heroku***, creating webhook endpoints that processed inbound events from Salesforce and third-party APIs (Marketo, Stripe), ensuring real-time updates and transactional integrity.
- Declarative configurations (custom objects, validation rules, workflows, process builders, and Flow automations) to automate lead assignment, opportunity scoring, and case escalation, reducing manual intervention and streamlining sales operations.
- Integration tests using ***Postman*** and ***Newman*** to validate API contracts between Salesforce and external services, automating these as part of the ***Jenkins***-based CI/CD pipeline to catch regressions before deployment.
- CI/CD workflows with ***Salesforce DX***, crafting *sfdx-project.json* configurations, scratch org definitions, and ***GitHub Actions*** scripts to automate source-driven development, continuous integration, and seamless deployments to sandbox and production environments.

Backend Developer

Brainly *– Kraków, Poland* *August 2018 ~September 2020*

- Search and recommendation microservices with ***Elasticsearch 6.x***, defining custom analyzers and index mappings to deliver highly relevant question suggestions and personalized content.
- Real-time notification systems using ***Redis Pub/Sub*** and ***WebSocket*** endpoints (via ***Django Channels***), enabling instant updates for new answers, comments, and moderation events.
- Background task pipelines with ***Celery*** (using ***RabbitMQ*** as broker) to process user-generated content, send transactional emails via ***SendGrid***, and handle asynchronous moderation jobs.
- Data ingestion workflows in ***Python***, consuming Kafka streams to aggregate usage metrics into ***PostgreSQL*** and ***ClickHouse*** data warehouses, facilitating analytics and operational reporting.
- Dockerized service containers (writing ***Dockerfiles*** for each microservice) and deployed them to ***Kubernetes (v1.15)*** clusters, creating ***Helm*** charts to manage configurations and streamline rollout processes.

Software Engineer

Vega IT *– Novi Sad, Serbia* *March 2016 ~June 2018*

- Single-page applications using ***AngularJS (1.x)*** and later migrated key modules to ***React (ES6, Redux)***, creating responsive, component-driven UIs and ensuring cross-browser compatibility.
- RESTful back-end services in ***Node.js (Express, TypeScript)***, implementing authentication with ***Passport.js (JWT strategy)*** and integrating with ***MongoDB*** via ***Mongoose*** for flexible data modeling.
- Server-side functionality in ***Python (Flask),*** building microservices that processed business logic—such as user management and reporting—and connected to ***PostgreSQL*** using ***SQLAlchemy ORM*** for relational data storage.
- Integration with third-party APIs (***Stripe*** for payment processing, ***Google Maps*** for geolocation) by implementing secure request signing and error-handling logic in Express and Flask endpoints.
- Real-time features using ***Socket.io*** on ***Node.js***, enabling live notifications and chat functionality: optimized event handlers to reduce server load under concurrent connections.
- caching layers with ***Redis***, configuring in-memory caches for frequently accessed data—such as user sessions and product catalogs—to decrease database query volume and maintain low-latency responses.

Education --

Riga Technical University

September 2011 ~ June 2015

Degree : Bachelor of Science in Computer Science in June 2015

Field of study : Computer Science

Location : *Riga, Latvia*

Graduated with a focus on software architecture, algorithms, and database systems