DENYS BOCHKO

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STAFF SOFTWARE ENGINEER | CLOUD ARCHITECT | TECHNICAL LEADER

Staff Software Engineer with 15+ years of experience leading architecture, modernization, and production delivery across SaaS, financial services, insurance, and early-stage companies. Translates product goals and MVP priorities into pragmatic roadmaps and production architectures, then remains hands-on through implementation and deployment. Experienced in modernizing business-critical systems without disrupting operations, designing reliable integrations, and improving engineering delivery through automation

SELECTED IMPACT

- Built and operate a production job-filtering platform that processes approximately 250,000 job listings per day.
- Reduced backend deployment time from approximately 10 minutes to 1.5 minutes through Docker and GitLab CI/CD optimization.
- Improved application loading performance by approximately 40% in two separate products through route-level lazy loading and API redesign.
- Built a resilient insurance-enrolment integration processing approximately 3,000 transactions each night.
- Replaced a vendor point-of-sale platform, generating six-figure annual savings and reducing processing cycles from weeks to days.

CORE EXPERTISE

Software Architecture • Technical Strategy • Legacy Modernization • AWS Cloud Architecture • Distributed Systems • Full-Stack Development • Infrastructure as Code • CI/CD • API Integration • Engineering Mentorship • Security and Reliability • AI-Assisted Engineering Workflows

PROFESSIONAL EXPERIENCE

Independent Software Consultant | Architecture and Full-Stack Delivery 02/ 2018 - Present

Deliver architecture, modernization, integration, and product-engineering engagements for startup, SaaS, insurance, and small-business clients. Work spans product definition, hands-on implementation, cloud infrastructure, security, deployment automation, and production support.

Staff Engineer (Part-time Contract) | Optyfind 11/2025 – Present

- Own end-to-end engineering of a production platform processing approximately 200,000 job listings per day and filtering opportunities using predefined user criteria.
- Designed and implemented the business logic, application architecture, PostgreSQL data layer, security controls, and delivery pipeline.
- Built the platform with Vue.js, TypeScript, Python, and Flask; deployed containerized workloads to AWS ECS using IAM, Secrets Manager, and CloudFormation.
- Reduced backend deployment time from approximately 10 minutes to 1.5 minutes by optimizing Docker builds and the GitLab CI/CD workflow.

Stack: *Vue.js, TypeScript, Python, Flask, PostgreSQL, AWS ECS, AWS EC2, AWS S3, IAM, Secrets Manager, CloudFormation, Docker, GitLab CI/CD*

Full Stack Engineer (Contract) | SWS 03/2025 – 05/2026

- Helped build a pre-launch ERP platform for dance studios, delivering features across a React frontend and Node.js/TypeScript backend.
- Provided technical direction within a two-engineer team and established frontend, backend, and file-organization standards adopted by a junior engineer.
- Corrected inherited database design issues and introduced maintainable feature boundaries for new ERP workflows.
- Introduced route-level lazy loading in React, improving initial application load performance by approximately 40%.
- Integrated a third-party holiday information provider and delivered additional business features across the frontend and backend.

Stack: *React, TypeScript, Node.js, third-party API integration, Squelize ORM*

Full Stack Engineer (Contract) | Dessertinity 01/2025 – 03/2025

- Rebuilt a legacy PHP menu and store portal as a production full-stack Next.js and TypeScript application.
- Redesigned the customer experience and application structure to improve usability and maintainability.
- Developed a purpose-built API within the Next.js application, reducing loading time by approximately 40%.
- Updated the AWS deployment workflow to support repeatable production releases.

Stack: *Next.js, TypeScript, full-stack API development, AWS S3, AWS EC2*

Principal Software Engineer (Contract) | Netspense 02/2024 – 05/2025

- Served as the sole engineer for a production expense-management platform that automated expense organization for small-business owners.
- Translated the founder's product concept into business logic, technical specifications, system architecture, and a working application.
- Reworked the initial PHP implementation into a modular React and Next.js architecture with TypeScript and a reusable MySQL service layer.

- Established AWS infrastructure with CloudFormation, automated CI/CD, and VPN-secured environments.
- Assessed security requirements for planned bank connectivity and initiated a hardened redesign with database encryption, application-level encryption of user data, centralized secrets management, and isolation controls.

Stack: *React, Next.js, TypeScript, PHP, MySQL, AWS, CloudFormation, Git, Gitlab CI/CD*

Full Stack Engineer (Contract) | Guard.me Insurance 07/2022 – 06/2024

- Integrated the platform with a new insurance provider whose enrolment API was being developed concurrently without formal documentation.
- Built a resilient nightly enrolment process handling approximately 3,000 transactions per run.
- Designed checkpointing, retry, and restart behaviour so interrupted runs resumed safely and revisited incomplete records until every enrolment transferred successfully.
- Added structured logging and fault handling around the business-critical integration.

Stack: *PHP, Git, REST API integration, nightly batch processing, structured logging*

Principal Software Engineer (Contract) | Shieldited 02/2018 – 01/2022

- Served as the sole engineer from proof of concept through production launch of a secure file-transfer platform for individuals and businesses sharing sensitive information.
- Designed encryption, authenticated access, expiring download links, access controls, audit logging, and protected file storage.
- Built the application with React, the Python Falcon framework, and PostgreSQL, and managed its AWS infrastructure.
- Automated CI/CD and production deployment workflows for repeatable releases.

Stack: *React, Python, Falcon, PostgreSQL, AWS, Git, Gitlab CI/CD*

Staff Engineer (Contract) | Efektiv 01/2017 – 01/2018

- Designed integrations that synchronized customer records across on-premises systems, Salesforce, and NetSuite.
- Reduced duplicate data entry, automated record matching, and decreased synchronization corrections.
- Cut manual reconciliation effort by approximately 40%.

Senior Staff Engineer | Sentry Investments 12/2009 – 04/2017

- Served as technical lead for a two-engineer team responsible for five business-critical systems supporting the mutual fund lifecycle.
- Owned systems for fund inception, production setup, daily pricing integrations, regulatory workflows, and ongoing lifecycle operations.
- Replaced a third-party point-of-sale and compliance platform with an in-house system, generating six-figure annual savings.
- Simplified the user experience and workflow for all participants, reducing processing cycles from several weeks to a few days.

EDUCATION

Computer Programmer Honours Diploma — George Brown College

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP, Python

Frontend: React, Next.js, Vue.js, Astro

Backend: Node.js, Express.js, Flask, Falcon, Yii2

Cloud and DevOps: AWS, ECS, EC2, S3, IAM, Secrets Manager, CloudFormation, Docker, GitLab CI/CD, CloudWatch

Data: MySQL, PostgreSQL

Architecture and Leadership: System design, data modelling, legacy modernization, API integration, security architecture, technical leadership