

Nikita Lobanov

Full Stack Developer

nikitaalobanov@gmail.com | Portfolio: nikitalobanov.com | Github: [nikitalobanov12](https://github.com/nikitalobanov12)

EDUCATION

British Columbia Institute of Technology

Bachelors of Science in Computer Science

Concentration: Full-Stack Web Development

Vancouver, BC

Relevant Courses: Data Structures & Algorithms, Web Database Technologies, Operating Systems, Object-Oriented Programming, JavaScript Frameworks and Server, Mathematics for Computing, Agile Software Development, Web Administration

ABOUT

Full-Stack Developer with hands-on experience in JavaScript/TypeScript, AWS cloud services, and database optimization. Proven ability to design, develop, and deploy scalable web applications, with a focus on maintaining high availability and optimal performance.

EXPERIENCE

Seaspan Corp

May. 2024 - Aug. 2024

Full Stack Development Intern

Vancouver, BC

- Diagnosed and resolved application errors in NetSuite and Oracle systems by analyzing system logs and employee data.
- Worked with IT team to resolve the global July 2024 CrowdStrike outage, restoring access for 1,300+ employees across 5 time zones in under 24 hours.
- Monitored Oracle database performance and conducted routine health checks on Linux/Windows servers and REST APIs, ensuring 99.9% uptime.
- Managed employee support requests via Jira Service Desk: triaged, categorized, and prioritized 300+ tickets in 3 months.

PROJECTS

WriteShare | AWS Services, TRPC, Web Sockets, Docker, Redis, NextAuth.js

[GitHub](#) | [Production Deployment](#)

- Developed a real-time collaborative markdown editor, Integrating Liveblocks for real-time editing features, and Yjs for conflict-free replicated data types (CRDTs), allowing for instant synchronization and automatic merging of content changes.
- Utilized Prisma ORM with PostgreSQL & Redis as a cache & a datastore to hold frequently accessed data in memory while having it written to the database in the background with data replication, reducing load times by <90%.
- Designed a type-safe API layer using tRPC and Zod, ensuring data integrity and reducing runtime errors by 80%.
- Resolved a complex infinite save loop race condition that came from conflicting state management between the parent component and the Liveblocks editor. This was fixed by restructuring component state ownership and ensuring the CRDT state updates were isolated and managed directly by the editor, with dedicated backend mutations for persistence.
- Deployed the containerized microservice architecture on the AWS platform using Docker, ECS Fargate for orchestration, RDS PostgreSQL for persistent data storage, and ElastiCache Redis for caching.

DayFlow | React, React Router, Tauri, PostgreSQL, GitHub Actions, Node.js, Stripe, VertexAI

[GitHub](#) | [Production Deployment](#)

- Created a goal setting & task planning application with AI integrated features, built with Tauri 2.0 for the desktop app and React 19 for web compatibility, serving ~180 active users with a single codebase across both platforms.
- Integrated Google Gemini AI for intelligent task scheduling, automatic time estimation, and smart task creation from natural language descriptions, efficiently using context from the users account to create goals, tasks, and a schedule for the user.
- Established bidirectional Google Calendar integration for task syncing and AI-aware scheduling that considers existing events.
- Automated CI/CD pipeline with GitHub Actions for desktop releases, deployments to Vercel, and CodeQL security scanning.
- Optimized database performance using indexes and efficient SQL queries, cutting query execution time by 40-70%.
- Enhanced React component performance through optimistic UI updates and memoization reducing page re-renders by 99%.

Circles | Next.js, Prisma PostgreSQL, Redis, Vercel, Tailwind CSS

[GitHub](#) | [Production Deployment](#)

- Engineered a full-stack social media application designed for community building, with groups where you can have a collection of photos shared between members, personalized activity feeds, privacy controls, and granular security permissions.
- Lead a team of 2 other developers in an Agile environment, utilizing Git for version control & Jira for task management
- Collaborated closely with a design team by contributing to feature ideation, assessing technical viability, and accurately translating the design of the figma prototype into a real world full stack application.
- Improved PostgreSQL database performance by implementing efficient data fetching strategies with Prisma, minimizing N+1 query occurrences through eager loading and efficient query construction, resulting in lower query execution time
- Integrated Cloudinary for image storage and built scalable image delivery using file transformations and CDNs, reducing bandwidth consumption by 60% and cutting image load times by 50% using various image compression techniques.

SKILLS

Languages: JavaScript, TypeScript, SQL, HTML & CSS, Rust

Frameworks and Libraries: React, Prisma, Tailwind, Tauri, Node.js, Express, NestJS

Database and Infrastructure: PostgreSQL, AWS RDS, AWS ElastiCache, Redis, Microservices, REST API, GraphQL

Cloud Services: Amazon Web Services ECS, AWS ECR, AWS VPC, AWS S3, Vercel

Tools: Jira, Git, GitHub, Vite, Vercel, GitHub Actions, Docker, Vitest, Playwright