

Volodymyr Vatrál

Senior Full Stack Software Engineer

SUMMARY

- Full Stack Engineer with 6 years of experience specializing in Python backend and Node.js, building scalable APIs and real-time systems.
- Expertise in microservices, event-driven architecture, and asynchronous processing using RabbitMQ, Kafka, and Redis.
- Proficient in React, React Native, and modern frontend frameworks for interactive UI development.
- Skilled in cloud infrastructure (AWS, GCP, Azure), container orchestration (Kubernetes, Docker), and CI/CD automation.
- Strong background in testing (Jest, Supertest), code quality, security best practices, and Agile methodologies.

TECHNICAL SKILLS

Main Technical Skills	Python (3 yr.), Node.js (4 yr.), FastAPI (3 yr.), React (4 yr.)
Programming Languages	Python (3 yr.), TypeScript (4 yr.)
JavaScript Frameworks	Express (4 yr.), NestJS (3 yr.), Next.js, Node.js (4 yr.), React (4 yr.), Vue.js
Python Frameworks	FastAPI (3 yr.)
Java Libraries and Tools	Knex.js
JavaScript Libraries and Tools	Mongoose, Passport.js, react-helmet, React Native (1 yr.), Redux (2 yr.), Zustand
Databases & Management Systems / ORM	Airtable, AWS DynamoDB, Elasticsearch, Memcached, MongoDB (1 yr.), MySQL, PostgreSQL (4 yr.), Prisma, Redis (4 yr.), Sequelize, Typeorm
UI Frameworks, Libraries, and Browsers	Material UI (1 yr.), Socket.io (1 yr.), Tailwind CSS (1 yr.)
Cloud Platforms, Services & Computing	AWS (4 yr.), Azure, GCP
Amazon Web Services	AWS DynamoDB
Third Party Tools / IDEs / SDK / Services	Algolia
Deployment, CI/CD & Administration	Ansible, CircleCI, GitLab CI, Jenkins
Web/App Servers, Middleware	Apache Kafka

Collaboration, Task & Issue Tracking	Atlassian Confluence
Blockchain and Decentralized Software	Bcrypt, Chai
SDK / API and Integrations	Context API, Eslint LinkedIn API, FastAPI (3 yr.), GraphQL (1 yr.), JWT, OAuth, OpenAPI, Swagger
QA, Test Automation, Security	Cypress, Jest (2 yr.), Mocha, Postman (1 yr.)
Virtualization, Containers and Orchestration	Docker (4 yr.), Docker Compose, Docker Swarm, Kubernetes (1 yr.), Terraform
UI/UX/Wireframing	Figma
Version Control	Git (4 yr.), Gitflow, Github Actions, trunk-based development
Mail / Network Protocols / Data transfer	JWT, SMPP
Methodologies, Paradigms and Patterns	Publish/Subscribe Architectural Pattern
Message/Queue/Task Brokers	RabbitMQ (1 yr.)
Other Technical Skills	husky, lint-staged, Prettier, Supertest (1 yr.)

WORK EXPERIENCE

Fullstack Engineer - Reenbit (StreamLayer)

Duration: August 2022 – September 2025

Summary:

- StreamLayer is a cross-platform mobile application that combines live sports broadcasting with interactive gameplay and sports betting
- It allows viewers to participate in live polls, trivia, and predictions synced to the stream, while tracking global leaderboards
- The app integrates real-time betting features including live odds displays, bet tracking, and in-game market betting

Responsibilities:

- Developed and maintained the robust backend infrastructure using Node.js and NestJS to support thousands of concurrent users during live sports broadcasts.
- Designed and implemented interactive UI components for iOS and Android using React Native.
- Set up two-way real-time communication via Socket.io to synchronize in-game events, live odds, and the video stream with sub-second latency.
- Integrated third-party Sports Data and Betting APIs to fetch live match statistics and up-to-the-minute odds, processing the data efficiently on the Node.js server.
- Developed server-side algorithms using Redis for dynamically updating global and custom leaderboards during live broadcasts.



- Collaborated closely with the QA team: analyzed bug reports, resolved backend and frontend defects, and wrote comprehensive unit tests using Jest.
- Participated in architectural planning for new features, conducted code reviews, and refactored the existing Node.js codebase for better scalability.

Technologies: React Native, TypeScript, Redux Toolkit, Node.js, NestJS, Socket.io, AWS Interactive Video Service (IVS), PostgreSQL, Redis, Docker, AWS (EC2, S3), GitHub Actions, Jest

Fullstack Engineer - Reenbit (TextMagic)

Duration: August 2022 – September 2025

Summary:

- TextMagic is a comprehensive B2B SaaS platform designed for business text messaging and communication
- It enables businesses to execute marketing campaigns, manage two-way SMS chats, and send automated reminders, notifications, and internal staff communications
- The system requires high availability and robust queue management to handle massive volumes of messages reliably

Responsibilities:

- Built and optimized highly scalable backend services in Node.js and Express to process high-volume SMS marketing campaigns and automated system notifications.
- Implemented interactive, real-time two-way chat interfaces and campaign management dashboards using React.
- Configured and managed message queues with RabbitMQ to handle heavy SMS delivery loads, ensuring zero data loss during traffic spikes.
- Integrated third-party APIs and direct SMS gateway protocols (SMPP) into the Node.js backend to guarantee fast and secure message delivery.
- Collaborated closely with cross-functional teams to define system requirements and improve feature coverage.
- Actively participated in troubleshooting, debugging, and resolving software defects to maintain strict SaaS uptime SLAs.
- Authored and maintained comprehensive technical documentation, including REST API specifications and defect reports.

Technologies: React, TypeScript, Tailwind CSS, Node.js, Express.js, RabbitMQ, PostgreSQL, Redis, SMPP, RESTful APIs, Kubernetes, Docker, AWS, GitLab CI

Fullstack Engineer - Reenbit (Toptal)

Duration: August 2022 – September 2025

Summary:

- Toptal is a subscription-based automated platform designed to rapidly test hypotheses and deliver applications to businesses
- It allows users to submit various technical tasks ranging from landing pages and mobile/web apps to complex automations and design, automatically assigning them to developers
- The platform leverages custom code and integrations to provide fast, high-quality, and cost-effective development services



Responsibilities:

- Designed, built, and optimized REST and GraphQL APIs using Node.js and NestJS to handle complex data flows, task assignments, and third-party integrations.
- Developed and maintained the core web platform using React, translating Figma designs into responsive, interactive UI components for the client task submission dashboard.
- Engineered custom server-side automation scripts in Node.js to streamline internal workflows and accelerate the delivery of client applications.
- Authored comprehensive technical documentation, including architectural plans and database schemas.
- Wrote and maintained over 200 unit and integration tests for the Node.js backend using Jest and Supertest, ensuring the stability of new features.
- Utilized Airtable for robust data management and configured it as an effective issue-tracking system to monitor and resolve software defects.
- Conducted API testing and validation using Postman to ensure secure and reliable data exchange across the platform's microservices.

Technologies: React, Material-UI, Redux, Node.js, NestJS, MongoDB, GraphQL, Webhooks, Git, Docker, Postman, Airtable, Jest, Supertest

Python Developer - Targer

Duration: May 2019 – July 2022

Summary:

- Backend development focused on creating and supporting complex server logic and database architecture using Python
- The role involved developing scalable backend services and maintaining robust data management systems

Responsibilities:

- Specialized exclusively in backend development using Python.
- Developed and supported complex server logic and database architecture.

Technologies: Python

EDUCATION

- **Master of Computer Science**
Ukrainian National Forestry University
September 2014 – June 2021

