

# YURII ZHYVAHA

Senior Software Engineer

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## Profile

Result-oriented software engineer with 8+ years of experience in commercial application development. Proficient in Elixir/OTP, client-server applications, databases (SQL, NoSQL), microservices, clouds (AWS/GCP), etc. Strong knowledge of software architecture, web technologies, DevOps, and operating systems (Linux/Windows). Familiar with crypto and financial technologies.

## Summary

- Strong knowledge of object-oriented programming, functional programming, and application development using Elixir, Node.js, Python, C++
- Strong knowledge of web technologies (backend, frontend)
- Strong experience in relational databases (PostgreSQL, MySQL) and NoSQL (MongoDB, Redis, Elasticsearch)
- Knowledge of cryptography, compression, file analysis
- DevOps (AWS, Google Cloud, terraform, helm, nginx, pm2, systemd, etc.)

## Achievements

- Contributed to open-source projects (gmail.js, Timex)
- Implemented a SRP-6a algorithm on C++ (via boost library) as a binding to Elixir
- Developed a different C++ bindings for Elixir/Erlang
- Implemented the geo-search engine based on Google Maps Platform, OpenStreetMap data and Nominatim
- Made solutions based on WebSockets (Elixir, Node.js)
- Created a browser extension for Gmail (using React.js)

# Experience

- Senior Software Engineer - **Hyphe** **Full-time** **Product** (Feb 2021 - Present)

Hyphe provides digital currency brokerage/liquidity for European financial institutions, typically retail banks, trading platforms and brings a deep experience of the interface between traditional financial institutions, digital currency exchanges, and regulators. The company is currently privately owned and regulated by DNB as a registered cryptocurrency service provider. Responsibilities:

  - Design, develop and deploy trading software solutions using Elixir/OTP
  - Implementation of trading algorithms (Hedging, Market Making)
  - Develop AWS Lambda Services (Node.js)
  - Design database
  - Complex SQL queries (e.g. PnL calculation)
  - Cloud/DevOps - AWS (RDS, S3), k8s, terraform, helm, CI/CD
- Senior Software Engineer - **StrongSD** **Part-time** **Outsource** (Mar 2020 - Present)
  - Design, develop and deploy gambling software solutions using Elixir/OTP
  - Refactoring legacy codebases
  - Implementation of low-level interservice communication using TCP protocol (ranch/gen\_tcp)
- Software Engineer - **Andersen Lab** **Full-time** **Outsource** (Oct 2018 - Mar 2020)

Financial-related projects (online bank, CRM).

  - Design, develop and deploy microservices using Node.js
  - Design databases for microservices
  - Code reviews / mentoring
  - AWS (Lambda, S3)
  - k8s, minikube, kustomize
- Software Engineer - **Prof-it LLC** **Full-time** **Outsource** (Aug 2018 - Oct 2018)
  - Refactoring legacy codebases
  - Develop Node.js services over Graphene (BitShares) blockchain platform

- Software Engineer - **Artmart Studio** **Full-time** **Product** (Aug 2016 - Jul 2018)
  - Design, develop and deploy a real estate management system using Elixir/OTP
  - Design, develop and deploy small projects using Python/Django
  - Develop frontend for different projects using React library
  - Design, develop and deploy browser extensions (Chrome, Firefox) for Gmail (like Mailtrack)
- Software Engineer - **Upwork** **Part-time** **Freelance** (Jan 2015 - Jul 2016)

Freelance developer of web applications (backend and frontend) in PHP/Laravel and JavaScript/React.js with different customers.

## Education

- State University of Infrastructure and Technologies (2019 - 2020)  
Master's degree, Computer Software Engineering
- State University of Infrastructure and Technologies (2017 - 2019)  
Bachelor's degree, Computer Software Engineering