

# Alexandru Olaru

## Senior Software Engineer / Team Lead

(35 Years)

Experienced Software Engineer and Engineering Manager with 12+ years in the industry, specializing in building scalable backend systems and leading high-performing development teams. Expert in TypeScript/Node.js, Rust, and modern cloud architectures.

### Contact

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 alxolr.com |  github |  youtube |  stackoverflow |  twitter

### Skills

Programming Languages	Databases	Speaking Languages
<ul style="list-style-type: none"><li>• Javascript/Typescript<ul style="list-style-type: none"><li>◦ Express</li><li>◦ FeathersJs</li><li>◦ NestJs</li></ul></li><li>• Rust<ul style="list-style-type: none"><li>◦ Axum</li><li>◦ Tokio</li></ul></li><li>• PHP<ul style="list-style-type: none"><li>◦ Symfony</li><li>◦ Magento</li></ul></li></ul>	<ul style="list-style-type: none"><li>• MySQL</li><li>• PostgreSQL</li><li>• MongoDB</li><li>• Neo4J (personal projects)</li></ul>	<ul style="list-style-type: none"><li>• Romanian (Native)</li><li>• Russian (Fluent)</li><li>• English (Fluent)</li><li>• French (Proficient)</li></ul>

### Work Experience

#### AWWCOR, INC. (Remote)

Jul 2018 - now (7 years 3 months)

Working for a US-based B2B SaaS company that provides software solutions for the clinical research industry. The platform helps big pharmaceutical companies to streamline their clinical trials, manage their data and ensure compliance with FDA regulations.

The code base consist of 36 applications and more than 200 lambdas written in Java and Nodejs/Typescript, more than 5 million lines of code. Technological stack: AWS, Java, Node.js, TypeScript, MySQL/PostgreSQL, Redshift, Lambda, SQS.

#### Positions held:

- **Senior Software Engineer** Nov 2023 – now

Key responsibilities:

- Worked on the backend part of a desktop application, a similar concept of github desktop, but integrated with our platform. The application was built using Tauri (rust) and Angular for the frontend part
- Performance improvement and optimization of the current system:
  - Managed to reduce the usage of RAM tenfold by switching to a lightweight logging library, pino
  - Notable achievement was the threefold enhancement in the execution time of internal jobs, achieved by processing progress messages in a batch, from the previous sequential approach.
  - Using flame charts, I identified and optimized parts of the app that were locking the event loop.
- Finding and fixing memory leaks using heapdumps
- Implementing Dependency Injection mechanisms using nest.js, tsyringe for the legacy parts of our codebase
- Actively maintaining our core backing libraries and upgrading to the latest dependencies using lerna
- Actively participating in design sessions for the new features
- Unit/Integration testing of the code written using mocha/jest
- Actively participate in coaching sessions and pair programming, as well as various brainstorming sessions

- **Software Team Lead/Engineering Manager** Oct 2019 – Oct 2023 (4 Years)

- Was leading two teams of 13 engineers. My initial team of 4 people and the second team that rapidly grew to 9 people in less than a year. The second team was created from scratch, and I was heavily involved in the hiring process, interviewing and selecting the right fit for our team.
- Both teams combined were responsible to oversee 6 applications and around 30 lambdas 1.4 million lines of code.

Key responsibilities:

- Team Leadership:
  - Manages and motivates a team of IT professionals.
  - Delegates tasks and responsibilities.
  - Conducts performance reviews and provides feedback.
  - Fosters a positive team culture.
- Operational Efficiency:
  - Oversees day-to-day operations and project management.
  - Identifies and mitigates risks to IT systems.
  - Maintains IT infrastructure and applications.
- Strategic Planning:
  - Contributes to the development of long-term IT strategies.
  - Collaborates with other departments to achieve business objectives.

- **Software Engineer** Jul 2018 – Sep 2019 (1 Year 1 Month) Key Responsibilities:

- Designed and developed clinical business technology solutions using TypeScript, MySQL, and AWS lambdas
- Helped shape the technical architecture for new commercial software products
- Built scalable application services deployed on AWS Cloud, ensuring performance and efficiency
- Troubleshoot complex issues in production applications to minimize downtime
- Coached juniors into advancing the next career level

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## **Pentalog, S.A. (Moldova, Chisinau)**

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Dec 2012 – Aug 2018 (5 years 8 months)

**Full stack developer** Dec 2012 – Aug 2018

Key responsibilities:

- Design of the applications and database architecture.
- Proposing improvements to enhance the project's success (quality, performance).
- Code refactoring, bug-fixing, and unit testing.
- Troubleshoot issues in the production applications.
- Training and coaching trainees on front-end technologies.
- Preparing internship programs on: HTML, CSS, JavaScript, Angular 1, Angular 2, Node.js, MongoDB.

## Education

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Sep 2009 - Jun 2013 **Technical University of Moldova, Chisinau.**

- Bachelor of Science in Information Technologies, Faculty of Computers, Informatics and Microelectronics

## Certifications

- JSNSD: OpenJS Node.js Services Developer
- JSNAD: OpenJS Node.js Application Developer