Yekaterinburg, RU

Dmitry Vesnin

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Key Skills

- Languages: C, C++, JavaScript/TypeScript, Bash
- Platforms: OpenEmbedded (Embedded Linux), NodeJS, Web
- Databases: SQLite, MongoDB
- Tools: Git, Make, Docker

Experience

Senior Software Engineer	741 Studios	May 2022 - Present
Aventa		May 2022 - Present

Development of software for user control panel of ICU ventilator.

Stack:

- C++
- Nuklear + OpenGLES 2
- Embedded Linux (OpenEmbedded)
- Bash
- Make
- SQLite3

Responsibilities:

- Application development: design and implementation of event-driven architecture based on CSP; build system maintenance; GUI, persistence, serial communication with other units, GPIO;
- Preparation of runtime environment for application: OpenEmbedded Linux image configuration, Linux kernel configuration and patching, development of systemd units and bash scripts for launching and restarting application, applying runtime system configuration, performing tasks
- Accumulation of domain knowledge
- Tasks planning
- Technical part of documentation for government certification

Professor	IT-College Yekaterinburg	Feb 2021 - Present

- Lecturing and seminar work on subjects:
  - basic programming, algorithms and data structures in JavaScript and Java
  - OOP, OOD and design patterns in JavaScript/TypeScript and Java
- Technical consultations for Students' projects
- Development of internal tools using NodeJS and Go

Software Engineer	Exadel	Mar 2019 - May 2022
Internal tools		Mar 2022 - May 2022

Development of job to parse corporate e-mail statistics.

Stack:

- NodeJS
- Selenium

Responsibilities:

- Development of selenium script that parses data from SPA
- Jenkins job setup

Mercer   Mar 2021 - Mar 2022

Full-stack development of client application.

Stack:

- Frontend
  - Typescript
  - Angular
  - NgRx
  - Ramda
  - Jasmine
- Backend
  - NodeJS + Express + Ramda + Jasmine
  - MongoDB
  - ElasticSearch

Responsibilities:

- Implementation and modification of features cross-cutting several services with a very intertwined business and application logic
- Optimization of MongoDB collections and queries, migrations

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AMC   Mar 2019 - Feb 2021

Front-end development of internal analytical applications.

Stack:

- Typescript
- Angular (+ Material)
- NgRx

Responsibilities:

- Development of end-user applications with complex interfaces including filters, charts, tables
- Maintenance and development of shared library: extracting recurring components from different projects; communicating with other devs to unify and improve interfaces and help them with updates; documentation and tools for updating projects for new library versions; development of internal application to view library docs similar to Angular Material docs
- Front-end side development of internal SSO system

Junior Software Engineer	741 Studios	May 2018 - Dec 2018

Potok

Full-stack development of client application for developing building ventilation projects.

Stack:

- Backend:
  - Java
  - Apache Tomcat
  - SQLite
- Frontend:
  - React
  - Redux

Responsibilities:

- Full-stack app development
- Communication with the client to gather functional requirements and plan tasks

Education

Yekaterinburg, RU	Ural Federal University	2015 - 2019

Bachelor of Information Systems and Technologies