David Hrdina Němeček

Software developer

Contacts

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Work Experience

Current position

Principal Software Engineer (UI Platform Architecture)
Oracle|NetSuite, *2023 - present*

UI Architect working on feature discovery, solution prototyping and technical designs.
Mainly focused on UI telemetry, performance, CI/CD tooling and pipelines.

`TypeScript` `React/Preact` `NodeJs` `OpenTelemetry` `Software Architecture`

Senior Software Development Manager (UI Platform)
Oracle|NetSuite, *2022 - 2023*

Engineering lead for multiple UI Platform teams who designed, developed and released a UI framework and tooling used by the rest of the organization.
Leader of a UI testing architecture group responsible for defining a testing strategy across the UI Platform.

`TypeScript` `React/Preact` `NodeJs` `Oracle JET` `Java` `Git`

Software Development Manager (UI Platform)
Oracle|NetSuite, *2020 - 2022*

Engineering lead for a UI Platform team who developed components for a UI toolkit used by the rest of the organization.
Technical product owner while bootstrapping a team.

`TypeScript` `React/Preact` `NodeJs` `Oracle JET` `Git`

Software Development Manager (ERP, Tax)
Oracle|NetSuite, *2017 - 2020*

Lead developer for ERP: Tax. Design and implementation of a pluggable Tax calculation engine. Coordination of multiple squads supporting both the legacy and the next-gen systems concurrently.

`Java` `Oracle SQL` `JavaScript` `Perforce` `Git` `Software Architecture`

Senior Software Engineer (ERP, Tax)
Oracle|NetSuite, *2013 - 2017*

Development of Tax calculation and reporting modules in a cloud ERP system. Large-scale refactoring of legacy code. Introduction of a pluggable architecture.

`Java` `Oracle SQL` `JavaScript` `Perforce` `Legacy code refactoring`

Software Engineer
Q2 Interactive, *2009 - 2013*

Development and project leadership of multiple web applications and services:
- CRM system (PHP backend server, JavaScript frontend, Android client app),
- Accounting web app (PHP, JavaScript),

`PHP` `Java` `JavaScript` `MySQL` `Server hosting` `Linux` `Android` `Subversion (SVN)`

- e-commerce sites (Magento),
- Linux server maintenance.

Skills

⭐ Main

TypeScript Java Linux

NodeJs

⊞ Support

Kotlin Go JavaScript Oracle SQL

Git React Preact Python

📖 Languages

Czech (native) English (proficient)

German (elementary)

📍 Interests

Heavy Metal Synthwave Mazda MX-5

DIY electronics Linux Open source

Education

Master's degree, Parallel and Distributed Systems
Faculty of Informatics, Masaryk University Brno, *2011 - 2013*

Master's thesis: *Efficient computation and visualization of correlations in medical signals.*
The first part consisted of high-performance computation of correlations on large volumes of analog data using supercomputers.
The second part covered the visualization of the computed results which allowed interactive exploration and processing of the data by a researcher.

C/C++
Supercomputers
OpenMPI Python
Visualization
Data science

Bachelor's degree, Parallel and Distributed Systems
Faculty of Informatics, Masaryk University Brno, *2008 - 2011*

Bachelor's thesis: *Parallel implementation of force-field decompression algorithm.*
The solution executed on a supercomputer cluster to perform real-time simulation of molecular forces. This in turn provided haptic feedback to a 3D pointing device.

C/C++
Supercomputers
OpenMPI Data science

Projects

Currently active

Personal open-sourced projects
Various contributions to software and hardware projects published on git.dejvino.cz, github.com/Dejvino and projects.dejvino.com.
These include video games, utilities, 3D models, retrofitting devices with embedded microcontrollers etc.

Kotlin Java Python
TypeScript Embedded
OpenSCAD Linux
Open Source
Self-hosting