

# DAVID MOLING

## FULL-STACK DEVELOPER

### WORK EXPERIENCE SINCE 2015

#### Platform petdoctors.eu | Mathis-Nordegg GmbH

Vienna, Austria (remote)

Development: Full-Stack

Work duration: February 2021 - now

Employees: < 10

Team size: ~ 5 (inner), 10+ (outer)

Roles: Lead Developer

Topics: development and management of the platform petdoctors.eu

Stack: Ruby on Rails, Docker

Tools, methods, libraries: Alchemy CMS, Jira, gitlab, confluence, git, git flow

Tasks: Full-Stack development, platform maintenance, database management, SEO, sitemaps, stakeholder communication, tracking systems, custom advertisement system, environment setup, loading optimizations, deployments, server management

#### Ogulo GmbH

Köln, Germany (remote)

Development: Frontend

Work duration: February 2021 - now

Employees: > 50

Team size: ~ 14 (inner), 30+ (outer)

Roles: Frontend Developer

Topics: virtual web based real estate touring

Stack: Angular, Three.js, Krpano, Vanilla Javascript (Typescript)

Tools, methods, libraries: rxjs, ngrx, WebGL, Material UI, ESLint, jest, AWS (Lambda), microservice architectures, Google workspace, VSCode, Jira, confluence, Gitlab, scrum, git, git flow, npm

Tasks: Frontend development, production app, releases, research, presentation and documentation, rendering with Three.js - WebGL, rendering optimizations, lazy rendering, microservices, own npm packages, webpack bundling, hot reload config, typescript plugins, krpano, daily and weekly scrum, sprint reviews, refinements, plannings, communication with stakeholders, QAs, pair-programming, refactoring, CI/CD, clean code



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### ABOUT ME

I'm a full-stack web developer with focus on business applications based on technologies like Typescript on the frontend and Ruby on Rails or Node.js on the backend. As a developer I am passionate about clean architectures and sustainable code. My main motivation: develop high-quality software which brings long lasting value to the customer.

### LANGUAGES

- German: mother tongue
- English: fluent
- Italian: proficient

## Virtual Vehicle GmbH

Graz, Austria

Development: Frontend

Work duration: October 2018 - February 2021

Employees: > 150

Team size: ~ 15 (inner), 40+ (outer)

Roles: Lead Frontend Developer

Topics: web based application for knowledge discovery, analysis of manufacturing projects, exploration of operational processes, graph data visualizations and car/train concept development for the automotive and rail transport industry

Stack: React with Typescript, Neo4j

Tools, methods, libraries: redux, redux-saga, MobX, cytoscape, rxjs, lodash, styled-components, d3, WebGL, Ant Design UI, TSLint, prettier, jest, puppeteer, Postman, Slack, Teams, VSCode, Jira, Confluence, Gitlab, scrum, git, git flow, husky, ts-prune, webpack, yarn

Tasks: Frontend development, UI design, MVP development, prototyping, production app, releases, authentication (OpenID), CI/CD, microservices, team coordination, QAs (code reviews, clean code, refactoring), coding guidelines, documentation, optimizations, lazy loading, caching, program modularization, access control, licensing system

## Tangelo Inc.

San Francisco, US (remote)

Development: Full-Stack and Mobile

Work duration: February - November 2020

Employees: < 10

Team size: ~ 5 (inner)

Roles: Full-Stack and Mobile Developer

Topics: mobile app, backend API and frontend web application for a delivery system in the consumer sector

Stack: Ruby on Rails, React Native with Typescript, React with Typescript, AWS, GraphQL, PostgreSQL

Tools, methods, libraries: Next.js, graphViz, redux, apollo, expo, lodash, styled-components, MaterialUI, devise, TSLint, prettier, jest, enzyme, rspec, Postman, GitLab, Slack, jitsi, VSCode, Trello, git, git flow, webpack, yarn, bundler

Tasks: Full-Stack and Mobile development, kickstarting, MVP development, offline and network handling, architecture design, UI design, database management, authentication, role-based access control, admin dashboard, CI/CD, deployments, QAs, documentation

## WORK EXPERIENCE

## Zirkonzahn GmbH

Gais, Italy

Development: Full-Stack, Salesforce

Work duration: July 2017 - September 2018

Employees: ~ 300

Team size: ~ 6 (inner), 30+ (outer)

Roles: Senior Full-Stack Developer

Topics: various web and salesforce projects in the machine industry

Stack: Node.js, Ruby on Rails, React, Docker, Python, Apex, Pascal, Javascript, PHP, HTML, CSS (Sass, Scss), AWS, redis, MariaDB, MySQL, PostgreSQL, Oracle

Tools, methods, libraries: graphViz, redux, devise, Bootstrap, TSLint, OAuth, prettier, jest, rspec, BitBucket, Slack, VSCode, Sublime, PHPStorm, PyCharm, Trello, git, webpack, npm, yarn, bundler, composer  
Tasks: full-stack development, UI design, database management, installers, software for data migration and integration, synchronizations, adapters for databases, landingpage software, event management software, QR-code ticketing, custom CMS, role-based access control, authentication (OAuth, OpenID), mailing, admin dashboards, salesforce plugins, Elasticsearch, trigram search, work with sales and marketing, work with designers, CI/CD, deployments, QAs, documentation

## Skoric IT GmbH

Graz, Austria

Development: Full-Stack

Work duration: October 2016 - February 2018

Employees: individual business

Team size: 2

Roles: Full-Stack Developer

Topics: projects for private customers and customers in the automotive and marketing sector

Stack: Javascript, PHP, Laravel, Symfony, Angular, HTML, CSS (Sass, Scss), MariaDB, MySQL

Tools, methods, libraries: Mediawiki, Vue.js, d3, Postman, Github, Sublime Text, PHPStorm, Trello, git, composer, gulp, Bootstrap

Tasks: full-stack development, chat system, websockets, web-crawling, PHP APIs, conformity to Web Content Accessibility Guidelines (WCAG) 2.0, bash scripting, server management, database design and management, custom wordpress themes, documentation

## WORK EXPERIENCE

Bizzons eMarketing GmbH

Graz, Austria

Development: Full-Stack

Work duration: March 2015 - October 2016

Employees: < 10

Team size: ~ 8

Roles: Full-Stack Developer

Topics: development of webpages, platform management and integrations in the marketing sector

Stack: React, Node.js, Django, Javascript, HTML, CSS, PHP, MySQL, MariaDB, MongoDB

Tools, methods, libraries: Intercom, Segment, Paypal, Github, Slack, Sublime, PHPStorm, Trello, git, composer, gulp

Tasks: full-stack development, Paypal webhooks, management of platforms and integrations, tracking systems, user analysis, crowd funding, marketing campaigns

## WORK EXPERIENCE

# OVERVIEW - SKILLS

## Frontend

- Javascript (current ECMA Versions)
- Typescript 4+: generics, template literals, mapped types
- React 16+: hooks, custom hooks, redux, redux-saga, MobX, context API, memoization
- Angular: state pattern with ngrx, filters and pipes pattern with rxjs
- foundations in Vue.js, Gatsby and Next.js
- js libraries and tools: keycloak.js, axios, lodash, d3 (and other chart libs), WebGL, Three.js, rxjs reactive programming (observables, throttle, debounce etc.)
- Styling: CSS3 (Sass, Scsss), UI-Libraries (MaterialUI, Ant Design, Bootstrap), styled-components, animate.css etc.
- HTML5, Pug, Jade, erb etc.

## Backend, Infrastructure

- Ruby on Rails
- Node.js
- Docker
- PHP, Laravel, Symfony
- Database systems: PostgreSQL, MongoDB, MariaDB, SQLite
- Query languages: GraphQL, SQL, Cypher, XQuery
- foundations in Django, flask
- foundations in Java
- foundations in AWS: S3, RDS, EBS, EFS, EC2, ELB, ALB, ECR, ECS, Fargate, Amplify, SAM, Lightsail, CDK, CloudFormation, CodePipeline, SES, SQS, SNS, Lambda, CloudFront, Route 53, VPCs, CloudWatch
- SSL certificates, DNS management
- server management with bash, SSH, FTP
- VM Ware, VirtualBox

## Mobile

- React Native
- Java
- Kotlin
- Flutter
- Android Studio
- Mockito, Espresso, ...

## Methods, Systems, Tools

- git, git flow
- REST API, SOAP API, GraphQL
- TDD, BDD, test automation, unit testing, integration testing, end-to-end testing, mutation testing
- testing libraries: jest, puppeteer, enzyme, rspec and other technology specific libraries
- Gitlab, Github, BitBucket with integrations to Jira, Confluence, Jenkins etc.
- design patterns: singleton, state, reducer, facade, adapter etc.
- authentication: OAuth 2.0, OpenID Connect, Keycloak etc.
- WCAG 2.0
- architectures: microservices, monolithic
- environments: develop, staging, production, feature branch deployments, runtime environments
- naming conventions, coding guidelines, documentation, code reviews, pair programming, refactoring
- agile project management (Scrum, Kanban), change management, release management
- Scrum: daily scrums, retrospectives, sprint planning etc.
- infrastructure as code: AWS, foundations in Terraform
- Jira, Trello, Slack, jitsi, Teams, Confluence, MediaWiki
- VSCode, Sublime Text, PHPStorm, PyCharm, netbeans, IntelliJ IDEA
- foundations in eCommerce, Shopware, Salesforce (Apex), Intercom, Segment
- single page applications, MVCs
- packaging: webpack, gulp, bundler, composer, yarn, npm, custom npm packages
- code quality: strict linters, ESLint, prettier, git hooks (husky)
- API documentation, Swagger, JsDoc, TsDoc
- MVP development, prototyping
- Postman

## Data Science

- python: numpy, matplotlib, plotly, scipy, pandas
- R, R Studio
- Matlab

## Other

- LaTeX, TeXmaker
- Wordpress
- foundations in MS-Office, Adobe InDesign, Adobe Photoshop, GIMP and other widely used multimedia software
- neural networks (feedforward, feedback, convolutional, recurrent), python tensorflow, hyperparameter search
- machine learning (statistics, pattern recognition, classification and regression problems, support vector machines)
- background in model checking, mutation testing

## OVERVIEW - SKILLS