


Ing. Jiří Zbytovský

I am a former chemical engineer, now a web FE developer skilled mainly in TypeScript, React, GraphQL, with BE experience in NestJS, Rails, MySQL. I am used to workflow with git/github, bash, kubernetes, AWS..

Kralupy nad Vltavou 

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Year of birth: 1996 



WORK EXPERIENCE

Frontend React developer | CustomInk

06/2022 – ongoing

Developing the accounts portal SPA using TypeScript, React, GraphQL, occasionally NestJS / RoR at backend, and our MUI-based Design system

Technology engineer | Unipetrol RPA

08/2020 – 05/2022

Litvínov refinery, Kralupy refinery

Graduate trainee program, then Department of technology development
Control of technological processes, engineer support for invest. projects
Often used VBA programming to automatize work with data and charts

Fullstack developer | Winsite

01/2016 – 06/2016

Fullstack development of engramo.com application
using JavaScript, NodeJS, Express, AngularJS, MongoDB



EDUCATION

Postgraduate studies | UCT Prague

09/2022 – ongoing

Thesis: Mathematical modeling of industrial processes
(programming of models in Python)

Graduate studies | UCT Prague

2018 – 2020, graduated with honors (Rector's prize)

Field: Technology of organic compounds and chemical specialities

Thesis: Caprolactam extraction from sulphate solutions
(programming of mathematical model in Matlab)

Undergraduate studies | UCT Prague

2015 – 2018, graduated with honors (Rector's prize)

Field: Chemistry and chemical technologies

High school | Gymnázium Jana Keplera

2007 – 2015

General education

Skills

- JavaScript – *advanced*
 - TypeScript
 - React
 - NodeJS, NestJS
 - GraphQL
 - AngularJS
- git, github
- Python – *intermediate*
- VBA – *intermediate*
- MATLAB – *advanced*
- Rails, PHP – *beginner*
- LaTeX – *intermediate*
- Driver's licence (class B)

Languages

- English (C1 level)
- German (basic)

Hobbies

- Reading, listening to music
- Science and technology
- Outdoor – hiking, rockclimbing, cycling



PERSONAL PROJECTS

I have used JS for hobby projects for a long time, the following two are noteworthy. Both are coded from scratch, relying *only* on AngularJS as view/controller framework:

Ultimate Unit Converter | [app](#), [github](#)

Productivity tool for science & engineering – a universal unit converter, that can do more than just convert predefined pairs of units; it is actually a parser of any physical expressions, and an engine for arithmetics of physical quantity calculations. So it converts *any combination* of units in various powers, and can perform simple calculations with them. Also includes up-to-date currency exchange rates. Available in CZ, EN languages.

I intensively use this app during engineering work, as do many colleagues.

Simulátor Škody Felicie | [app](#), [github](#) (CZ language only)

Realtime mathematical model of combustion engine, clutch and transmission, based mostly on real data of a popular Czech car. Originally only a numerical calculation for my curiosity; gradually more features were added, as well as game elements – includes Canvas 2D graphics, dynamic sounds, terrain generation, performance charts, feedback control, and more cars... Although the app is for entertainment, it is an extensive project, with complex functionality on all layers of MVC.