

# ZDENEK HYNEK

FULL-STACK DEVELOPER

10 years' experience developing data-driven interfaces and digital products



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## SELECTED WORK

- REIMAGINE THE GAME

REIMAGINETHEGAME.ECONOMIST.COM

React, Redux, d3.js, Canvas, WebGL, Node.js, Javascript

A microsite measuring and visualising reactions off football fans to the Bayern Munich game. Together with the team of 3 developers. I've developed most of the charts and UI elements and wrote backend scripts which process and combines data from various sources and calculates aggregations. It was a close collaboration on a tight deadline with a diverse team including acoustical engineers. The project has been awarded the Kantar Information is Beautiful Award 2018.
- UPROAR TOOLS

TOOLS.UPROAR.FYI

Django, Python, Selenium, Postgres, Elastic Beanstalk, React, d3.js, Javascript

Advocacy tool for digital rights activists. I've prototyped and developed the entire digital product. Based on historical data from the UN. I have designed a ranking algorithm to recommend countries to lobby. I've also lead the requirements gathering, sprint-planning and assisted during the user-testing.
- ELECTRIC INSIGHTS

ELECTRICINSIGHTS.CO.UK

React, Redux, d3.js, Mocha, Chai, Express, Node.js, MongoDB

The interactive visualization displaying the latest breakdown of the electricity production in the UK. I've built most of the frontend and handled maintenance and small fixes of the back-end which collects data from different sources and stores them in MongoDB. The entire application is heavily unit tests.
- FOREST SCOPE

FORESTSCOPE.INFO

React, Redux, d3.js, SVG, WebGL

Responsive storytelling microsite. Working together 2 other developers. I've lead the build and worked on most of the UI and data visualisations.
- ENGAGED AND OUTRAGED

OUTRAGED.ME

Django, Python, WebSockets, React, d3.js, Chrome browser extension

A self-initiated project for an exhibition. visualising real-time the YouTube recommendations algorithm. I've developed the browser extensions recording YouTube data, backend API and front-end UI and visualisations of multiple devices synchronized with WebSockets.

## EXPERIENCE

- CONTRACTOR

NOVEMBER 2018 - NOW

Archax - Full-stack developer  
Data4Change - Head of development  
RedSift - Full-stack developer
- SIGNAL NOISE

NOV 2015 - NOV 2018

Full-stack developer  
Senior full-stack leading development work on agency projects. Active in the initial scoping, idea generation, and client meetings and handovers
- GEOGRAPHICS

2008 - 2015

Co-founder and full-stack developer  
Leading business and web development

## EDUCATION

- FRONTEND

Javascript, ES6/7, Typescript, React, Redux, d3.js, SVG, canvas, WebGL, Mocha, Chai, Webpack,
- BACKEND

Python, Django, Node.JS, Express, PHP, Mysql, Postgres, MongoDB, AWS, Heroku
- DATA SCIENCE

Basics of Tensorflow.js, ml5.js. Some experience with Python-based tools for data science and machine learning - Pandas, Numpy, Scipy

## ACTIVITIES

- Organiser of the Visualising Data London meetup
- Team lead at Data4Change design sprints
- Instructor of the Introduction to AI workshop

## EDUCATION

- DATA SCIENCE INTENSIVE

Springboard  
MAR - JUN 2017  
An online course covering the basics of data science in Python
- MASTER OF SCIENCE

Masaryk University  
2016 - 2017  
MSs in Geoinformatics with exchange stays at the University of Arizona and École Normale Supérieure de Lyon.