

Curriculum Vitae



Jakub Fiala

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I'm a software engineer and artist with 9 years of experience building interactive and audiovisual applications on both web and native platforms. Interested in social ecology, utopian thinking, domain-driven design, and delightful+performant user experiences.

Work history

Jan 2020 - Dec 2023

Ecosia GmbH

Principal Engineer - building a powerful microservice-oriented search platform with modern UI components.

Jan 2019 - Jan 2020

Studio Fiala Ltd.

Director - specialising in computational art & audiovisual web technologies consulting

Jan 2018 - Jan 2019

British Broadcasting Corporation

Creative Technologist / Web Developer - in the IRFS section of BBC Research & Development.

Sept 2016 - Jan 2018

Wellcome Trust

Senior Software Developer

August 2015 - present

Interactive Web / Audio / Machine

Learning Consultant

Clients inc. Greyworld, XL Recordings, Synervoz, Zentrum für Netzkunst Berlin etc.

July 2014 - June 2016

Goldsmiths Digital

DSP & Interactive Media Developer

October 2014 - July 2015

KnowledgeRocks Ltd.

iOS/Web Application Developer

Education

2015 - 2016

Goldsmiths, University of London
MSci Creative Computing

2012 - 2015

Goldsmiths, University of London
BSc Music Computing

2010 - 2012

Gymnázium Jura Hronca
International Baccalaureate Diploma

2004 - 2010

Gymnázium Partizánske

Language skills

English – fluent (anglophone – CERF C1)

German – intermediate (CERF B2)

French – intermediate (CERF B2)

Spanish – basic

Czech – fluent

Slovak – native

Programming Languages & Tools

JavaScript - Vue, React, Node, Electron

Web Platform - HTML5, modern CSS, SCSS, Canvas, Web Audio, Web GL

Go - gRPC

Infrastructure - Kubernetes, Terraform, S3, Prometheus, Grafana


Python - TensorFlow, NumPy, SciPy, Pandas, Flask, Django

PHP - Drupal, WordPress

C++ - OpenFrameworks, Chromium

Databases - SQL, Postgres, Redis, MongoDB

Selected publications, talks, workshops

Vue.js Berlin (Jan 2024) *Taproot: How Ecosia built an in-house web framework, and why you should, too*  Taproot

Uroboros Festival 2021 *Arcana in the Feed: Navigating the Internet*
<https://www.youtube.com/watch?v=9aimRQIVYXo>

Uroboros Festival 2020 *Oracles for Troubling Times: Designing new divination systems* <https://www.youtube.com/watch?v=KxmAd6ByK40>

Web Audio Conference 2018 *r-audio: Declarative, reactive and flexible Web Audio graphs in React* <https://www.youtube.com/watch?v=cetQbIX3ji4>

Sónar+D 2018 *Singing with Machines* workshop on behalf of BBC Research&Development, with Tim Cowlshaw.
<https://sonarplusd.com/en/programs/barcelona-2018/areas/workshops/singing-with-machines>

Global AI Hackathon Seoul [2016] I was part of a team from Goldsmiths, University of London at the Global AI Hackathon in Seoul organised by Nabi Art Centre. The hackathon participants included teams from the USA, Germany, China and South Korea. Along with [Hadeel Ayoub](#) and [Leon Fedden](#) we developed a working prototype of a glove which detects learned hand gestures and translates them into speech using IBM Watson APIs. Our project was awarded the first prize.
<https://www.gold.ac.uk/news/ai-hackathon-seoul/>

International Conference on Live Interfaces 2016 – University of Sussex Publication of the paper “*Collaborative coding interfaces on the Web*” (with Dr. Mick Grierson and Dr. Matthew Yee-King) <http://reframe.sussex.ac.uk/reframebooks/archive2016/live-interfaces/>

Web Audio Conference 2015 – IRCAM, Paris *Meyda: an audio feature extraction library for the Web Audio API* (with H. Rawlinson and N. Segal) <https://medias.ircam.fr/x8fbaf8>

Selected artworks, performances & exhibitions

Tarot of the Latent Spaces, 2022, exhibited at Vorspiel Berlin, January 2022

Slices of the Ocean, Form 2019, CICA Museum, South Korea, September 2019

Immunotherapy (N. Matsumoto & N. Koetting), Talion Gallery, Tokyo, September 2019

Acheiropoieta, ANTIDEGREE show, Croydon Arts Store, 2019.

Made By Machine: When AI Met the Archive, BBC Four documentary, 2018

Alluvial Sharawadji with Tim Cowlshaw, Eufónic Festival, Catalunya, 2018

The Artist's Rite, performance @ PureGold Festival, London, 2015

Scar Mechanics, score for Ana Mendes' Map Series performance, 2014