

# CV - JACEK KRÓLIKOWSKI

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## CONTACT INFORMATION

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## PROFILE

Backend engineer with 10+ years of experience in designing and building pragmatic solutions across a variety of tech stacks and differently-sized organisations. Passionate about functional programming, antifragile systems, and taking the right approach to the task at hand.

## WORK EXPERIENCE

**Senior Backend Engineer at Grain** 2023-2025

Worked on the **Phoenix**-based backend for the core video conference recording and processing service.

### WARSAW, PL

Led a number of initiatives, including moving the video serving to **HLS**, allowing the company to lower the cost and processing time of clips derived from longer videos.

Improved DevEx by speeding up the CI by an order of magnitude and pushing test coverage over the 50% mark. Implemented a custom **RAG** system using **oban** jobs and **pgvector** indexes. Frequently investigated and solved Postgres query performance issues.

**Founder/Engineer at Moving Pieces Studio** 2021-2023

Took care of the technical aspects of the **Ampersand Table** - a kinetic sculpture, containing custom robotics controlled by the users' smartphones.

The work included parametric mechanism design in **Fusion**, embedded programming in C++, cross-platform mobile app development using **Flutter**, and electronics design/layout in **KiCad**.

Collaborated with a team consisting of a UX designer / interior architect and a marketing specialist, as well as subcontractors specialising in electronics design and woodworking.

**Senior Backend Engineer / Team Lead at Fresha** 2020-2021

Led a team responsible for making architectural changes without reducing service availability or development velocity. Spearheaded efforts to improve the developer experience in Elixir and RoR codebases, reinforce best practices, and improve knowledge flow.

Responsible for developing the "Fresha credits" feature, which supported low-friction activation of newly onboarded partners.

### LONDON, UK

**Senior Backend Engineer at Rekki** 2019

Headed a backend team handling the release of a redesigned version of the app.

Designed and developed new features in Phoenix-based services, built tools assisting the move to a new data model, took care of the APIs' backwards compatibility, network performance, and legacy issues.

**Senior Backend Engineer at Curl** 2018-2019

Worked on architecting and developing an event-sourced backend for a real-time payments network.

Delivered core features such as refunds, “hands free” payments, and loyalty schemes, in coordination with the mobile client developers.

**Backend Software Engineer at Mainframe** 2016-2018

Developing a scalable business messaging product in Elixir - developing new features, working closely with product owners and client developers. Moved the backend deployments from Heroku to AWS.

**Software Development Engineer, SDE II at Microsoft** 2014-2016

Worked on a common login and registration platform used by Skype clients on different operating systems. Developed ASP.NET MVC apps and their integrations with other Skype and Microsoft services.

Built a prototype of a big data social network feature for an internal hackathon using a proprietary big data processing framework - Microsoft Cosmos.

REDMOND, US **Software Development Engineer Intern at Microsoft** 07-09.2013

DUBLIN, IE **Software Development in Test Intern at Microsoft** 07-10.2012

WARSAW, PL **Junior PHP Programmer at K2 Internet S.A.** 2009-2010

## OTHER ACTIVITIES

### CONFERENCES

Spoke at [Code Beam STO 2019](#) and the [Elixir London](#) meetup group, addressing topics like application and package security, debugging systems running in production and parallelized computational flows.

Attended [Elixir.LDN](#), [ElixirLive](#), [ElixirConf EU](#), [Code BEAM STO](#).

### OPEN SOURCE

Authored [rexbug](#), one of the most popular Elixir interactive tracing libraries, totalling over 2,000,000 downloads to date.

Created a number software and hardware utilities - for some examples visit [nietaki.com/projects](#).

## EDUCATION

**Master's course in Computer Science**  
**University of Warsaw** 2012-2014

**Bachelor's degree in Computer Science**  
**University of Warsaw** 2009-2012

**Bachelor's course in Telecommunications**  
**Warsaw University of Technology** 2006-2008

## TECH EXPERIENCE

### PROGRAMMING LANGUAGES

Extensive experience with [Elixir](#) and [Erlang/OTP](#), practical experience in golang, lua, Ruby, Dart, C#, and shell scripting.

### INFRASTRUCTURE

Deployed production applications, most commonly using Terraform and Ansible, and hosted on AWS or PaaS platforms.

Currently practicing DevOps by operating a bare-metal Kubernetes cluster hosting personal tools such as [postgres](#), [Onyx](#), [Ollama](#), and [Grafana](#). The cluster is managed using declarative Ansible/[Helm](#) playbooks/charts.

## LANGUAGES

**English** - fluent, **Polish** - native

## INTERESTS

Tetris (I'm a top-100 [tetr.io](#) player in Poland), [BJJ](#), algorithmic art, inline skating, Neovim.