

Michal Szczepanski

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Portfolio

<https://portfolio.vane.pl>

Senior Fullstack Software Engineer

develocraft - <https://develocraft.com>

Client: S&P Global

January 2024 - June 2026

b2b - remote

Probabilistic graph modeling platform

Working from prototype to deployment of predictive graph modeling platform for rare mineral price forecasting (sponsored by DARPA Open Price Exploration for National Security Grant). Performing biweekly demos to stakeholders, streamlining development process, designing and prototyping new business features.

Achievements

- started project from scratch that scaled to launching Critical Minerals Hub and hiring 12 developers
- designed AI agents powered collaborative bayesian graph editor and scenario engine
- scaled mcmc forecasting process, designed end to end application data automation layer

Technologies and skills

python, asyncio, pandas, scipy, numpy, tensorflow, typescript, reactjs, reactflow, chart.js, pycrdt, websocket, docker, localstack, terraform, tkrisk, evIEWS, papermill, aws (s3, lambda, sqs, ec2, dynamodb, bedrock, elasticache) gcp (cloud composer, big query, vertex ai, notebooks)

Founding engineer

pinmenote - <https://pinmenote.com>

November 2022 -

b2b - remote

Web archive tool

Working on a prototype of web page aggregation, automation, sharing and annotation software.

Achievements

- Design and develop state of art website archiving technology
- Nearly bankrupted

Technologies and skills

golang, gin, fastapi, asyncio, typescript, nestjs, redis, mariadb, k8s, docker, stripe, aws (s3, lambda, sqs, ec2)

Fullstack Software Engineer

Applause - <https://applause.com>

Software Development Consultant

Link group - <https://linkgroup.pl>

Client: Applause

June 2021 - November 2022

b2b - remote

September 2020 - June 2021

b2b - remote

LCNC (Low Code No Code) phone testing platform

Working from prototype to deployment of award winning LCNC (low code no code) hybrid cloud, dev ops, web application. Streamlining network communication across micro services and external providers.

Achievements

- Contributed to appium that is leading phone testing open source project. [appium github](https://github.com/appium) ([release v1.22.0](https://github.com/appium/releases/tag/v1.22.0))
- Design and develop distributed phone state management software for recording tests.
- Speed up development process more than 10 times by reducing local development stack complexity.

Technologies and skills

typescript, angular, appium, android, ios, macos, heroku, redis, keycloak, nodejs, nestjs, bull queue, rabbitmq, websocket, docker, postgres, tidb, golang, python, asyncio, ansible, k8, aws (s3, lambda, eks, sns, ec2)

Software Development ConsultantCybercom Poland - <https://www.cybercom.com/>

Client: Opuscapita / Posti Finland

February 2015 - June 2020

b2b - remote

Document processing platform

Document personalisation / printing / visualisation platform that is processing millions of invoices with targeted marketing materials - Consultant / Developer (web). Lead team of 2 developers, 2qa.

Achievements

- Ported sockjs-tornado open source project from python2 to python3 [sockjs-tornado github](#)
- Design and develop state of art document automation platform processing millions of invoices

Technologies and skills

python, tornado, django, websocket, javascript, nodejs, angularjs, react.js, webpack, gulp, zookeeper, jenkins, docker, bash, mysql, gmc inspire, aws (fargate, cognito, lambda, sns, sqs, ec2, s3)

Client: Doro Sweden

Phone testing platform

Android phone manufacturer - phone prototypes testing tools. Adapt android application into new android version. Create AOSP building and testing tools to maintain google android guidelines for android hardware.

Achievements

- Reduced phone to market time.
- Delivered GSMA 2015 best mobile device for accessibility & inclusion (Doro for Doro Liberto 820)

Technologies and skills

python, django, wxWidgets, matplotlib, flask, android, android rom building, google android internals, uiautomator, linux, hardware, aws (s3, ec2)

Software Development ConsultantAtendeSoftware (Redge Technologies) <https://redge.com>

Client: TVN, nc+ (player+ box)

November 2017 - June 2018

b2b - part time

Set top box video device

I was asked to put out the fire and help to deliver set top box hardware for major vod platform in Poland. Solving bottlenecks, streamlining process between hardware vendor, stakeholders and developers. Lead 4 developers.

Achievements

- Refactored and optimised code to meet outdated hardware requirements and release set top box
- Figured out black screen problem (faulty hdmi implementation) that resulted in vendor firmware patch

Technologies and skills

chromium embedded framework (cef), lxc, javascript, hdmi, dolby, video, hardware, rest api

Software developerX-Trade Brokers - <https://xtb.com> / <https://xopenhub.pro>November 2010 - October 2014
onsite

Client: X-Trade Brokers

XStation Trading Platform

Financial trading platform. Lead team of 5 devs and 2 qa. Streamlining bottlenecks across company technology stack, c++, java, action script, python, javascript. Working with stakeholders and founder of the company to develop trading platform from first prototype to deployment.

Achievements

- Delivered state of art web based application that allows to trade across forex, commodities, CFD, options. This finally became xopenhub white label broker technology that resells it's solutions across globe.
- Made transactional money transfer broker that moved money between internal systems

Technology and skills

actionscript, flashplayer, flex, amf, javascript, python, flask, django, java, jboss-cache, metatrader, akka, akka-stm, java, hibernate, hft, options trading, algorithmic trading

Software developerArsThanea - <https://arsthanea.com/>April 2008 - November 2009
onsite

Client: Bebiko / Bebilon - Nutricia Polska

Przypomisiacz bebiko

Calendar desktop application for pregnant woman to track their pregnancy.
Working on cross platform desktop application.

Achievements

- Implement custom calendar view by modifying flex framework source code, contributed back to flex

Technology and skills

air, sqlite, flashplayer, flex, actionscript, javascript, php, pregnancy calendar

Client: mydeco

Mydeco 3d room planner

Room design and visualisation web application for a uk startup founded by people behind lastminute.com
Frontend action script development.

Achievements

- Reduced and optimised codebase that resulted in faster application load times

Technology and skills

actionscript, flash, flex, papervision3d, python, django, 3d models, reality server, ocr

Education

- 2007 - 2008 - Wroclaw University of Technology - postponed
 - 2004 - 2006 - Warsaw University of Technology - postponed
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Volunteer Experience

Public code public money

Translated <https://publiccode.eu> website to polish language to increase awareness of spending public money in Poland. Contributed translation to Free Software Foundation Europe [free software foundation europe git](#)

Links

https://vane.pl	blog
https://github.com/vane	
https://git.fnexe.com	my gitea instance
https://search.fnexe.com	my searxng instance

Certificates

- 2018 - Getting started with Google Kubernetes Engine - Coursera
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Interests

cooking, sci-fi movies and books, games, self hosting