

# Artur Mostowski

## SOFTWARE ENGINEER

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## Experience

### Currency One SA

SOFTWARE ENGINEER

Poznan, Poland

May 2019 - currently

- Creation and edition of microservices communicating via RabbitMQ in Java, Kotlin, Javascript, and Typescript.
- Edition of frontend in React, Angular, and Elm.
- Creation and edition of API endpoints in Swagger + Typescript.
- Implementation of security features required by PSD2.

## Education

### Poznan University of Technology

MASTER OF SCIENCE IN ENGINEERING (MAGISTER INŻYNIER) IN COMPUTER SCIENCE

Poznan, Poland

May. 2020 - Jun. 2021

- Speciality: Intelligent Decision Support Systems.

### Poznan University of Technology

BACHELOR OF ENGINEERING (INŻYNIER) IN COMPUTER SCIENCE

Poznan, Poland

Sep. 2016 - Apr. 2020

- Thesis title: Optimization of algorithms for discovering spatio-temporal collocation patterns.
- Finished with grade 5 (in range 2-5), continuously awarded Rector's Scholarship

## Professional Skills

Currency One SA	Node.js (with JavaScript, Typescript, & CoffeeScript), Java, Kotlin, Python	Back-end
	React + Redux, Angular, Elm	Front-end
Walutomat.pl team	PostgreSQL, MongoDB	Databases
	Docker, Kubernetes, RabbitMQ, Git, Jira	Other
Currency One SA Banking Domain team	Node.js with CoffeeScript, Ruby with Watir & Nokogiri	Back-end
	Vue	Front-end
	PostgreSQL	Databases
Academia	TensorFlow, PyTorch, numpy, sympy	ML & NN
	ANSI C, C++, C#, Python, Java	Algorithms
	GoLang	Thesis project
	Oracle	Databases
Hobby and others	Haskell, F#, PureScript, Haxe	Languages
	Unity Engine, Trello	Tools
	MS Office, $\LaTeX$	Other

## Projects

### Optimized algorithm for discovering spatio-temporal co-location patterns

TECHNOLOGIES: GO

Concurrent program that discovers feature co-location patterns using interpolation with high-order polynomials and interval arithmetics.

*B.Sc.Eng. thesis project*

*project for Programming Technologies*

### Advanced user panel for Walutomat.pl communicating with it via API

TECHNOLOGIES: NODE.JS, REACT

App consisting of server serving as a facade for Walutomat.pl API and React frontend allowing users to utilize Walutomat.pl's functionalities more conveniently.

*Academic*

*project for Programming Technologies*

### Program simulating the university's website for students

TECHNOLOGIES: ORACLE, NODE.JS, PUG

Server and database for the university system allowing admins to create lectures schedule, teachers to grade students whom they teach, and students to view grades.

*Academic*

### Voting app for Poznan Guild of Gamers (PGG)

TECHNOLOGIES: NODE.JS, REACT, POSTGRESQL

App consisting of the database, and server of heroku, enabling users to vote. Authentication via GoogleAuth.

*Personal*

### Market exchange simulator

TECHNOLOGIES: JAVA, JAVAFX

Program that simulates stock exchange and allow the user to "purchase" and "sell" assets

*Academic*

*project for OOP course*

### Chrome/Firefox extension communicating with mailcatcher via socket

TECHNOLOGIES: JAVASCRIPT

An extension that recognises when input with specified id emerges on screen and pulls code from mail/sms send to mailcatcher.

*Work Related*

*help for the QA team*

### Terminal based RTS game for 3 players

TECHNOLOGIES: ANSI C, NCURSES

App consisting of multithreaded server with shared memory utilising semaphores and client program that communicates with the server via message queues.

*Academic*

### Program recognising gameboard state in the tabletop game "the Settlers of Catan"

TECHNOLOGIES: PYTHON, SKIMAGE

Program that finds the Catan board in the picture, warps perspective, checks type of tiles, finds roads and cities and marks it all on the original picture.

*Academic*

### "Secret Hitler" (a tabletop game like Mafia or Werewolf) helper app

TECHNOLOGIES: NODE.JS + TYPESCRIPT, REACT.JS + REDUX + TYPESCRIPT

App that randomises players roles and implements the "policies" card deck.

*Personal*

### Android app monitoring my highschool's website for substitution information

TECHNOLOGIES: KOTLIN, MYSQL, ANDROID PUSH NOTIFICATIONS

App that periodically scraps the website, sends a push notification if the content changes, and displays it.

*Personal*

### Parish website

TECHNOLOGIES: REACT.JS, MONGODB

One-page website for the parish allowing admins to submit announcements.

*Personal*

*mbcz.pl*

## Other relevant information

**FCE** Cambridge First Certificate in English (FCE): grade B

*June 2013*

<b>Known Languages</b>	Polish <i>native</i>	English <i>professional</i>	German <i>advanced</i>	Swedish <i>basic</i>	Italian <i>basic</i>
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**Teaching** Computer Science in 51<sup>st</sup> Elementary School in Poznan as a volunteer

*Sep 2016 – Jun 2017*

**Tutoring** undergraduates and High School students in Mathematics, Physics, and Programming

*Since 2016*

**Driving licences** Polish categories: A2 and B

*Since 2016*