

# MACIEJ PROCYK



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<https://kotlin-dev.ml>



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## Technical Skills

### Overview

- thorough understanding of algorithms and data structures
- working with Git, SVN, GitLab, GitHub, Jenkins, TeamCity
- unit and integration testing
- knowledge of design patterns
- concurrent programming techniques
- build process automation with docker and bash/python

### Programming

Java • Kotlin

Haskell • Scala

TypeScript • HTML • CSS • SQL

Rust • C++ • C • Python

## Education

### MSc, Computer Science

University of Warsaw  
2021 - Present | Warsaw, Poland

### BSc, Computer Science

University of Warsaw  
2018 - 2021 | Warsaw, Poland  
GPA: 4.68/5.00, Bachelor's thesis

## Other

- love swimming, running, calisthenics, climbing, cycling and skating
- like code reviews and engaging discussions after code debugging
- try to be flexible and creative problem solver

## Experience

### AppCode Internship in JetBrains

(Jul. 2021 - Sep. 2021)

- working on the features of Kotlin Multiplatform Mobile plugin
- using Kotlin, IntelliJ SDK, Gradle, Space, YouTrack, TeamCity

### Junior Java Developer in SoftwarePlant

(Aug. 2020 - Mar. 2021)

- working on Java Spring application for projects management
- using Guava, Hibernate, Maven, JUnit, Wiremock, PostgreSQL, Docker

### Java EE Internship in Accenture

(Jul. 2019 - Oct. 2019)

- working on Java EE web application for problems management
- using Maven, Hibernate, GWT, SQL

## Projects

### Latte Native compiler @ GitHub

(Oct. 2021 - Jan. 2022)

- implemented part of Latte language compiler for x86 supporting basic types, loops, classes, virtual class methods, register allocation and code optimisations
- using ANTLR, JUnit, GraalVM, Kotlin

### Kotlin interpreter @ GitLab

(Feb. 2021 - May. 2021)

- implemented part of Kotlin language supporting basic types, arrays, loops, functions (with any types as return types and arguments), final variables, handling runtime errors, higher-order functions and sequences
- using BNFC, stack, happy, alex, make, Haskell

### Prinz @ GitHub

(Nov. 2020 - May. 2021)

- provide machine learning integrations for Nussknacker
- BSc thesis project designed in 4-person team coordinated by external supervisor
- using MLflow, jpmml, H2Oai, Docker, Scala

### EatersLab System @ GitHub

(Feb. 2020 - Jun. 2020)

- system for canteens occupancy data management created in 4-person team
- developed server, client's app and RaspberryPi camera software
- using Django (webserver), Kotlin (Android client app) and OpenCV (RaspberryPi software)

### RemoteBot @ GitLab

(Feb. 2020 - Jun. 2020)

- system for WiFi controlling LEGO Mindstorms NXT 2.0 robot with video stream
- developed server and Android client app for robot controlling
- using leJOS (Java robot programming), flask (OrangePi server) and Kotlin (Android app client)

### Pocket Cube Solver @ Blog

(Jul. 2019 - Oct. 2019)

- app for solving and puzzling with Rubik Cube Solver
- designed LEGO Mindstorms robot that solves Pocket Rubik Cube and Android app for scanning and solving Pocket Rubik Cubes
- using Kotlin (Android app) with Bluetooth API and Java (robot code)

## Scholarships and Awards

### winner of Mathematica student project

University of Warsaw (2019/20)

Research on Cellular Automata in Wolfram Language

**winner (2018) and laureate (2017) of Polish Olympiad of Technical Knowledge, finalist of Polish Olympiad of Physics**

Warsaw (2017/18)

### 3rd place in European CanSat Competition

Bremen (2017)

Build minisatellite as a member of CANpernicus team

## Research

P. Hanczyc, M. Procyk, C. Radzewicz, P. Fita - Steady-state and Time-Resolved Spectroscopic Characterization of Coumarin 307: Its Aggregation and Two-Photon Excited Stimulated Emission for Lysozyme Amyloid Fibrils Detection