Jakub Cabała

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EDUCATION

Imperial College London

MEng Mathematics and Computer Science

- Integrated MEng degree
- Year 1 Total: 81.82 / 100
- Member of the Imperial Blockchain Society & Imperial Data Science Society
- Java Prize winner

Jan Długosz's Bilingual High School

• Advanced Polish Matura Exam scores: Mathematics 98%, Physics 97%, English Language 98%

- STEP 2 score: Grade 1
- Laureate in the AGH Diamond Index Olympiad for Mathematics, Physics, and Computer Science
- President of Nowy Sącz Scholarship laureate

EXPERIENCE

Code4rena | Smart Contract Auditor | Freelance

- Audited 10+ projects and found 5 high and 1 medium-severity vulnerabilities
- Completed a QA report for each project

Ringier Axel Springer Poland | Web Developer | Part-time

- Worked on a project that resulted in a remarkable 11 million monthly user increase
- Designed, implemented, and tested a solution that improved the web application's performance by 30%

Ringier Axel Springer Poland | Web Developer Intern | Full-time

- Developed, tested, and refactored the code of Onet.pl, the new site with more than 2 million users a day
- Developed components used for playing and streaming video on Onet.pl

Self Employed | Web Developer | Freelance

Szczawnica, Poland | 04/2022 – 06/2022

Cracow, Poland | 06/2022 - 09/2022

Created websites for 4 local businesses using the Next.js framework

PROJECTS

PintOS¹

- Developed essential features for an operating system in C, including thread scheduling, concurrency support (locks, semaphores), thread sleeping, and system calls.
- Produced concise reports detailing program design and behavior

WACC Compiler¹

- Engineered a WACC² programming language compiler in Scala, utilizing the Parsley library for syntactic analysis.
- The compiler goes through three pivotal stages: syntactic analysis, semantic analysis, and code generation.
- Outputting x86 assembly code in Intel Syntax, the compiler features robust error and warning handling for an enhanced user experience.

10.2023 - 12.2023

01.2024 - 03.2024

Remote | 06/2023 - 09/2023

London, UK | **10/2022 – Present**

Nowy Sącz, Poland | 09/2019 - 05/2022

Remote | 09/2022 - 12/2022

¹ In adherence to university regulations, I am unable to publicly disclose the repository for this project. However, the code is available for review upon request during a meeting or call.

² An educational, strongly typed, imperative programming language supporting function calls, arrays, pairs and IO

Doodle

- Contributed to an open-source 2D graphics library in Scala.
- Developed code within the Java2D backend to convert images into bitmaps.
- Currently engaged in enhancing the library by implementing convolution support.
- The repository is accessible at: github.com/creativescala/doodle

SKILLS

 Programming languages & frameworks: 	JavaScript, React.js, Next.js Python, Scala, Solidity,	Additionally, knowledge of SCSS, CSS & HTML Libraries: NumPy, Pandas, Scikit-Learn, Matplotlib Experience with parser combinators using Parsley library Experience with testing and deployment using Foundry
	Java, C, C++, Haskell, Prolog	
Databases:	SQL, PostgreSQL, MongoDB, GraphC	ζL
Programming Tools:	GIT, GitHub, GitLab, Visual Studio Code, VIM, Linux OS, Jenkins	
• Programming General:	CI/CD, OOP, Functional Programmin Test Driven Development, Concurre Programming	
 Machine Learning Techniques 	Regression, Classification, SVM, Neural Networks, Decision Trees, Clustering	Experience with ML techniques using Python
• Languages:	Written and oral communication: English, Polish	Polish Language Proficiency: Native English Language Proficiency: C1 (8/9 IELTS score)

INTRESTS

Brazilian jiu-jitsu, Pure Mathematics, Movies

REFERENCES

Wojciech Niemiec from Ringier Axel Springer

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