

# Elia Wiekiera

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## Education

**BSc Computer Science**, University of Nottingham 2024 - 2028

- **Expected grade:** First
- **Second year:** Operating Systems & Concurrency, Developing Maintainable Software, Introduction to Formal Reasoning, Software Engineering Group Project, Advanced Functional Programming, Languages and Computation, Distributed Systems, Algorithms Data Structures and Efficiency, AI methods
- **First year (78%):** Programming & Algorithms (86%), Assembly Language Programming (77%), Networks (89%), Computer Architecture (81%), Intro to Software Engineering (81%), Databases & Interfaces (85%), Fundamentals of AI (70%), Programming Paradigms (78%)

## Technical Projects

**Hackathon Project** October 2025

- Implemented HyperText Coffee Pot Control Protocol (HTCPCP) in a client-side application and a server application intended to be connected to a Nescafé coffee machine, winning the Spirit Of The Hack award.
- Tools Used: Typescript, TCP, HTTP

### Reversi Game

- Created a full GUI implementation of the Reversi game using Model-View-Controller and other OOP design patterns to receive a final grade of 97%.
- Tools Used: Java, Java Swing, Object Oriented Programming

### ARM Assembly Disassembler

- Created a tool to decode binary ARM7TDMI instructions into human-readable ARM assembly code.
- Tools Used: C, ARM Assembly

### First-Year University Group Project

- Took a team leader role in a first-year group project, using an Agile methodology to keep the team organised including documenting their work and remaining efficient and supported at finishing their assigned work.
- Used a test-driven development approach using JUnit and tracked through GitLab to achieve a grade of 84%.
- Tools Used: Java, JUnit, Agile, Git

## Experience

**Smart Bar Assistant**, Digital and Technology Services, University of Nottingham 2025 – Current

- Provided on-campus tech support to students and staff in a team of 60 Smart Bar Assistants.
- Supported students and staff with WiFi connections, printing, registration and miscellaneous queries with personal devices, using my technical knowledge to support creative problem-solving.

**Student Mentor**, School of Computer Science, University of Nottingham 2025 – Current

- Mentored a group of 14 first year students, providing academic and personal support.

**Student Representative**, School of Computer Science, University of Nottingham 2024 – Current

- Represented my cohort of 415 students in regular meetings with staff
- Led to direct changes of the school's policies to better match student expectations

**Director at lipu tenpo e.V.** 01/2021 - 06/2023

- Founded a literary non-profit from initial community interest, leading a team of 24 to become the largest corpus of Toki Pona text, helping me develop leadership skills and helping me start a Toki Pona society at university.

## Skills, Languages, Interests

**Skills:** Linux, Object Oriented Programming, Functional Programming, Test Driven Development, Agile, Git

**Languages:** Bash, Java, C, Python, ARM ASM, Haskell, JavaScript, TypeScript, NodeJS, HTML/CSS, SQL, Rust

**Interests:** Constructed languages, toki pona, Cycling, Linguistics, Reading, Lower-Level Programming, Bioinformatics, OpenStreetMap