Rebeka Dittrich

Education

Imperial College London *London, United Kingdom*

MEng Computing (Artificial Intelligence) *2018-2022*

On track for first class honour.

Relevant Modules: Haskell, Java, C, Architecture, Databases, Operating Systems, Logic, Reasoning about Programs, Networks and Communications, Hardware, Mathematical Methods, Graphs and Algorithms.

In addition to computing courses, participating in a Mandarin Chinese language course.

Fazekas Mihaly High School *Budapest, Hungary*

Final examination: Excellent (5) in Mathematics, Computer Science, Physics, History, English language, Hungarian language. Earned the special praise of the examination board in Mathematics and Computer Science.

Work Experience & University Project

Pintos *London, United Kingdom*

Team leader *October - December2019*

Pintos is a simple operating system framework which supports kernel threads, user programs, and a file system. Our responsibility is to strengthen these features and add a virtual memory implementation in C.

ARM-11 & Raspberry Pi *London, United Kingdom*

Team member *May - June 2019*

Developed an ARM assembler, emulator, and an extension in C, achieving a top mark of 93%. Implemented a Camera Module, buttons and LEDs to create a camera with a timer. Wrote a picture transformation program for it.

Cyclotron Designing Project at Wigner Research Centre for Physics *Budapest, Hungary*

Team member *March – December 2017*

Optimized the shape of the poles of the accelerator's magnet using COMSOL Multiphysics to create the biggest homogenous area with the strongest magnetic field possible.

Prezi *Budapest, Hungary*

Intern in the Development Team *July - August 2017*

Developed a full stack web application that helps employees to find meeting rooms. Used Flask as a framework and wrote the program in Python. Stored the database using SQLAlchemy.

Created a user output which combines a map and written instructions. Developed an API which is used as a chatbot. Employees can ask for directions through messages, recognizing misspelled words from the written context as well.

Did user interviews and consulted with designers to deliver the best product possible. This application is still used in the company.

Achievements

Earned 'Outstanding UX and Design' award at Cambridge-Bradfield Hackathon for a project. *March 2019*
Wrote a program in Python using TODAQ TaaS API to create a full stack application ensuring secure communication between doctors and patients. Designed the user interface and drew the illustrations.

Earned second place at a board game design contest with a project about financial education. *December 2018*

Earned first place at the OSA's programming and educational tool developing competition. *October 2016*

Volunteering

Scouting *2013 - 2018*

Taught underprivileged and handicapped children weekly and managed the finances of the group for two years.