Jan Matas

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Education

Oct 2014 – Jun 2018 | Imperial College London
MEng Computing (Artificial intelligence)
Cummulative result: *89% - **Top of the class student** in second year*

Formicary Software Engineering Prize for excellent examination performances in Software Engineering
Tensor society mathematics for engineers prize for best performance in Mathematics by a second year student from the City and Guilds College or the Royal School of Mines
G-Research prize for top ten non-final year students in the department for academic excellence
Corporate partnership program prize for first year group project - Neural Networks
Other: Morgan Stanley IT prize, Department of Computing Entrance Scholarship

Work Experience

Jul - Sep 2016 | Google Zurich, Switzerland
Site Reliability Engineering Intern
- Created a system for analyzing per video resource usage in YouTube ContentID system
- Build an AB load-testing infrastructure using traffic replays for a new ContentID index

Jul - Sep 2015 – *Jul - Sep 2014* | Apis spol. s.r.o., Banska Bystrica, Slovakia
Summer Intern
- Independently created a system of virtual gates for employee monitoring in medical storage rooms
- Written a Raspberry Pi program able to count and identify people using webcam feed, depth cam feed and custom RFID antennas (Python, OpenCV)
- Developed a web application to process the acquired data and show it to the user (NodeJS, AngularJS)

Notable Projects

- Neural networks - character recognition and traveling salesman problem using recurrent neural network (Java)
  - **CPP prize for best project in category**, team leader (5 imperial students)
- AREROS - autonomous rescue robotic system able to navigate in dangerous environments
  - **Intel ISEF 2012** – Finalist, **World championship in robotics RoboCup jr.** 2011 - 1st place
- Persica - real-time web dashboard to control and monitor a fleet of IoT devices. (team leader, JS and Python)
- WACC compiler - compiler for an imperative language from scratch generating ARM assembly executable on bare metal Raspberry PI and demonstrated with Tetris game. (team, TypeScript)
- PINTOS - implemented thread scheduler, system calls and virtual memory into toy OS. (team, C)
- OTHER: Snake in ARM assembly(group project, leader), Smart fridge with voice recognition(IC Hack)

Volunteering and positions of responsibility

Jul 2015 - Now | Oxbridge admissions, Slovakia
Webmaster
- Did major redesign, maintenance of the website, responsible for mailboxes and technical support

2009 - 2014 | Scientific toy Banska Bystrica, Slovakia
Member of board of directors
- Organised multiple workshops for children about programming and robotics
- Conducted research on the popularity of various toys (900 participants) and presented it on Expo Sciences International 2011

Skills

Programming languages:	Python, JavaScript, C, Java, Haskell, C++
Technical:	HTML5, CSS3, Git, Linux, NodeJS, AngularJS, SQL, MongoDB, OpenCV, Build Tools (Gulp)
Languages:	English (CAE, IELTS 8.0), French (state examination), Slovak, Czech