# Jan MATAS

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## EDUCATION

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| *Oct 2014*<br>*Jun 2018* | Imperial College LONDON<br>*MEng Computing (Artificial intelligence)*<br>Cummulative result: *87.8%* - **Top of the class student** in second year, top 5 in first and third year<br>**G-Research prize** for top ten non-final year students in the department for excellence (awarded twice)<br>**Formicary Software Engineering Prize** for excellent examination performances in Software Engineering<br>**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<br>**Other:**  Morgan Stanley IT prize, Department of Computing Entrance Scholarship |

## WORK EXPERIENCE

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| *Mar - Oct 2017* | PALANTIR TECHNOLOGIES London, United Kingdom<br>*Software Engineering intern*<br>• Full stack development of data analytics tool for customer (Java, Typescript, ElasticSearch, ...)<br>• Significantly improved search relevance and perf, improved data pipeline reliability<br>• Iterated with users on functionality and UX of multiple features during onsite visits |
| *Jul - Sep 2016* | GOOGLE Zurich, Switzerland<br>*Site Reliability Engineering Intern*<br>• Created a system for analyzing per video resource usage in YouTube ContentID system<br>• Build an AB load-testing infrastructure using traffic replays for a new ContentID index |
| *Jul - Sep 2015*<br>*Jul - Sep 2014* | APIS SPOL. S.R.O., Banska Bystrica, Slovakia<br>*Summer Intern*<br>• Independently created a system of virtual gates for employee monitoring in medical storage rooms<br>• Written a Raspberry Pi program able to count and identify people using webcam feed, depth cam feed and custom RFID antennas (Python, OpenCV)<br>• Developed a web application to process the acquired data and show it to the user (NodeJS, AngularJS) |

## NOTABLE PROJECTS

- Global Air Traffic Management For UAVs - in association with Altitude Angel and Microsoft (C#, Python)
  - **Palantir Forward Group Project Prize** for outstanding third year group project
- 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
- MeetInTheMiddle.me - webapp allowing couples to search for flights starting in 2 cities. (team, Python, JS)
  - **NextJump best webapp prize** at ICHack 2017
- OTHER: Snake (ARM assembly, team, leader), Compiler written from scratch (TypeScript), Webdashboard for managing IoT devices (Javascript, NodeJs), Pintos - toy operating system. (C)

## VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

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| *2015 - 2016* | OXBRIDGE ADMISSIONS, Slovakia<br>*Webmaster*<br>• Did major redesign, maintenance of the website, responsible for mailboxes and technical support |
| *2009 - 2014* | SCIENTIFIC TOY Banska Bystrica, Slovakia<br>*Member of board of directors*<br>• Organised multiple workshops for children about programming and robotics<br>• Conducted research on the popularity of various toys (900 participants) and presented it on Expo Sciences International 2011 |

## SKILLS

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| PROGRAMMING LANGUAGES: | Python, JavaScript, C, Java, Haskell, C++ |
| TECHNICAL: | HTML5, CSS3, React, ElasticSearch, Spark, Git, Linux, NodeJS, SQL, OpenCV |
| LANGUAGES: | English (CAE, IELTS 8.0), French (state examination), Slovak, Czech |