Alberto Spina

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EDUCATION

Imperial College London *October 2015 - June 2019*
Master of Engineering in Computing
Expected: First-class honours

SKILLS AND LANGUAGES

Languages Fluent in English and Italian. Well-versed in French.
Technical Skills Proficient with C and Java. Familiar with C++, C#, Javascript and Python. Basic knowledge of UNIX and SQL.

EXPERIENCE

G-Research April 2018 - September 2018
Software Engineering Intern

- Designed and developed a fully-customizable Random Data Generator in Java.
- Wrapped VSphere and Active Directory operations into easy-to-use MEAN applications.
- Benchmarked library and code performance on different architectures, compilers and GPUs.

PROJECTS

DynamicFusion - computer vision *October 2017 - January 2018*
DynamicFusion is a dense Simultaneous Localization and Mapping (SLAM) system capable of reconstructing non-rigid deforming scenes. While proprietary implementations already exist, ours uses open source dependencies and can be run on custom data produced from an RGBD camera.

Paging - web application *June 2017 - July 2017*
Built in a group of four using the MEAN stack (AngularJS, Node, Express and MongoDB), Paging is an application meant to enhance the group planning experience using the Google Maps API.

Pintos - operating system *January 2017 - March 2017*
Working in a group of four we implemented Thread Scheduling, System Calls and Virtual Memory management for a simplified Linux-based operating system in C.

PawnRace - a simple AI *December 2015 - January 2016*
PawnRace is a simple Java AI-powered game which was awarded with Formicary's Prize after scoring third during a competition held at Imperial College London.

AWARDS AND ACHIEVEMENTS

Palantir Forward Group Project Prize, DynamicFusion *January 2018*
Awarded to an Outstanding Third Year Group Project for Software Engineering Excellence applied to solve an Important Real-World Problem.

Hack Sheffield 3.0, S.S.Door *October 2017*
"Best Use of AWS" (MLH), "Making something better, easier, or more accessible" (SkyBet), "Best use home automation or IoT devices within student accommodation" (Ask4).

Olav Beckmann Project Prize, Imperial College *July 2017*
Awarded for outstanding second year undergraduate laboratory project work.