

# Alberto Spina

30 Percy Laurie House, 217 Upper Richmond Road, London, SW15 6SY

☎ (+44) 7340 489934 ◇ ✉ as12015@ic.ac.uk ◇ 🌐 github.com/swarth100 ◇ 🌐 www.spina.me

## 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, SQL and scripting.

## EXPERIENCE

---

### G-Research

*April 2018 - September 2018*

*Software Engineering Intern*

- Designed and developed a fully-customizable Random Data Generator in Java with Yaml config files.
- Deployed easy-to-use MEAN applications to wrap Ansible, VSphere and Active Directory operations.
- 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 (MongoDB, ExpressJs, AngularJs and NodeJs), 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.