

# ARAN LONG

software developer.

## SOCIAL

email  
hello@aranlong.co.uk

github  
/aranscope

web  
aran.site

twitter  
@aranscope

## SKILLS

Java, C/C++, NodeJS,  
Javascript, Haskell,  
OCaml, Python,  
Microservices/REST, Git,  
HTML, CSS3, Robotics.

Proven teaching and  
public speaking skills.

Experience in industry  
leading dev teams.

Event experience around  
the world.

## EXPERIENCE

### INVENTIVECOGS

BIRMINGHAM, UK. SEPT 2016 -  
ONGOING.

Technical consultant / software developer. Designing  
technical architecture and maintaining infrastructure.

### AUTODESK LTD.

BIRMINGHAM, UK. SUMMER 2016.

Rewrote core XML reading and parsing libraries leading to  
100% backend UNIX compatibility. Part of the most  
profitable team in manufacturing using C++14 standards.

### UNIVERSITY

BIRMINGHAM, UK. SEPT 2016 -  
ONGOING.

Giving talks and taught sessions on robotics to schools all  
over the UK. Student ambassador at open, applicant and CAS  
training days.

## EDUCATION

### UNIVERSITY OF BIRMINGHAM

BIRMINGHAM, UK. 2015 - 2019.

Studying for a Computer Science BSc w/ industrial  
placement. Achieved a 1st class grade (81%) in first year.  
Notably achieving the highest grade in the year (100%) in  
both Robotics and the Language and Logic exam.

### ST. BRENDAN'S SIXTH FORM

BRISTOL, UK. 2013 - 2015.

Achieved A\* A A in A2 Maths, Physics and Computing.  
Achieved A A in AS Further Maths and Design and Tech. Led  
student robotics team to national quarter finals.

## ACHIEVEMENTS

### JUNCTION

HELSINKI, FIN. NOV 2016.

Deezer prize for developing 'BusOff!', a bus stop hack to let  
you dance with people around the world.

### BRUMHACK

BIRMINGHAM, UK. NOV 2016.

1st place for developing 'see', a computer vision and natural  
language powered platform to help the blind see.

### HACKUPC

BARCELONA, ES. OCT 2016.

Best use of Amazon AWS prize for developing notif.click, a  
no cost notification platform using the Amazon Dash.

### HACKMIDLANDS

BIRMINGHAM, UK. OCT 2016.

2nd place finalists and MajesticSEO prize for 'DanceAuth',  
shape slicing security.

### HACKNOTTS

NOTTINGHAM, UK. NOV 2015.

Best use of CapitalOne prize for 'StockMotion', an education  
stock trading game using leap motion.

### ASTONHACK

BIRMINGHAM, UK. OCT 2015.

2nd place finalists, MLH and CapGemini prize for 'TwEAT', a  
Twitter visualization tool based on agar.io

### CISCO

LONDON, UK. OCT 2015.

1st place champions in the Cisco University Challenge for  
developing PermissionCloud, a Bitcoin inspired approach to  
IOT security.

## PROJECTS

### TRAVLR

ONTARIO, CA. SEP 2016.

Developed machine learning travel app using Node, Express,  
React, JS. Likely provoked early release of Google Trips.

### GADGET SHOW

VARIOUS, UK. SUMMER 2016.

Developed speed dating chatbot to feature on the UK TV  
series. I built the data entry stack and architected the  
project.

### ROBOTICS

BIRMINGHAM, UK. SPRING 2016.

Led a team of 10 developers in creating a prototype multi-  
robot autonomous warehouse system.

### GEODONATION

MANCHESTER, UK. APR 2016.

A charity analytics platform using the Pebble smartwatch,  
QR scanning and an IOT donation box.

### AERONODE

BRISTOL, UK. SPRING 2015.

A telemetric data logging platform for small-sized aircraft.  
Using a custom designed shield for the Arduino  
microcontroller.