

# Sunny Miglani

☎ +44(0)7778909873 | ✉ sunnymiglani936@gmail.com | 🌐 sunnymiglani | 📺 sunny-miglani

Software Engineer at Oracle Cloud Infrastructure working in a DevOps role  
First Class with Honours graduate (Masters of Engineering - Computer Science) from University of Bristol.  
Require "Skilled Worker" Sponsorship

## Experience

---

### Oracle Cloud Infrastructure - FaaS

SOFTWARE ENGINEER / DEVOPS

Fully Remote UK

May 2021 - Present

- Working as a DevOps engineer on Functions as a Service (FaaS)
- Contributed towards many of the scalability and availability components in the service.
- Gained deep experience working with technologies such as Kubernetes, Docker, Prometheus, Golang, Java and Python
- Experienced in developing and maintaining micro-service architecture, with a focus on low-footprint deployments
- Gained experience with core Oracle Cloud Infrastructure services

### Micro Focus

SOFTWARE ENGINEER

Newbury, United Kingdom

September 2019 - April 2021

- Worked on enterprise application using **Java** as the primary language. Creating plugins for the Eclipse IDE
- Learned the skill of picking up a code base and quickly familiarising myself with the concepts and structure, allowing me to maximise my contributions.
- Worked in a CI/CD supported Agile workflow system, built around tools such as **Jenkins** and Kanban boards.

### Bristol Interaction Group

HCI RESEARCH AND DEVELOPMENT INTERN

Bristol, United Kingdom

June 2018 - August 2018 - 2 Months

- Built a **dynamic quiz as part of an Amazon Alexa skill** that **reduces inequality** in education for sight impaired students in school settings through audio and haptic feedback-based systems.
- The application was built using AWS Tools and Alexa kit, and followed the Co-Design Research Methodology.
- Co-authored an award winning paper at the HCI Conference ([CHI-2019](#)) where the project acted as a user study

### SPHERE Research Group

DATA ANALYTICS INTERN

Bristol, United Kingdom

June 2017 - August 2017 - 2 Months

- Developed an algorithm for a **passive radar system** that used **RSSI** (Return Signal Strength Indicator) values from WiFi signals in a smart house for location tracking without the need for any wearable devices. This can further be applied into finding changes in any signal based data.
- Using simple correlation analysis, I created a tool that **helps identify redundant temperature measurement nodes** in an IoT network. This reduces the number of devices required to run the smart house, thereby reducing the integration and maintenance costs.

### University of Bristol

TEACHING ASSISTANT

Bristol, United Kingdom

September 2017- June 2018

- **Concurrent Computing:** Explained the principles of concurrency including the functionality of low level C programs using common debugging tools such as GDB for a lab of 150 students.
- **Software Product Engineering:** Managed two 6-people teams while teaching and facilitating the scrum and agile methodologies. This helped me understand how to promote clear communication in teams and how to work with a variety of different viewpoints.

## Education

---

### University of Bristol

MEng in **COMPUTER SCIENCE**

United Kingdom

2015 - 2019

- Awarded First Class MEng Degree with Honours in **Computer Science** (4th Year - 70%, 3rd Year - 68%, 2nd Year - 69%, 1st Year - 61%)
- Modules Covered: Machine Learning, Introduction to Data Analytics, Cloud Computing, Cryptography, Applied Security, Web Technologies, Computer Architecture, Data Structures and Algorithms, Language Engineering and various group projects to build full applications.

### Bishop Cottons Boys' School

A LEVEL EQUIVALENTS

Bangalore, India

2013 - 2015

Overall 90% (STEM Based subjects)- Computer Science, Maths, Physics, Chemistry and English.

## Programming Languages

---

**Proficient**, Java, Python 2 and 3, Golang

**Familiar**, .NET/C#, C++, Javascript, COBOL, C

**Softwares**, Kubernetes, Kubectl, Jupyter Notebook, Python Flaks, Git, SVN, SCP/SSH, Microsoft Azure, Oracle Cloud Infrastructure(OCI), Prometheus, Terraform, Docker, Podman, Helm, Grafana

## Projects

---

### Micro Focus Hackathon - First Place Award

2020 at Micro Focus

5 PERSON TEAM

- **Created** a custom scalable **FaaS application** that allows running **COBOL on demand** in a **serverless environment** on Microsoft Azure using Azure Blob Storage, Azure Function app (**Docker**), Azure App platform and GitHub IO pages. Contributed the **Python flask** application that connected the various elements and managed the team

### Sentiment Shifting Tool

2019 at Bristol

FINAL YEAR THESIS APPLICATION

- Used **NLTK/SpaCY** and other Python3 libraries to build an application that can suggest alternative words to use in a similar fashion to auto-correct to help make text based communication more polite. Invented and integrated the algorithms involved myself. Obtained a first class mark for the work

### Boeing and Bristol Computer Science Society Wellbeing Hackathon

March 2019

6 PERSON TEAM

- First Place at the Wellbeing hackathon for Mental Health category by building a smart calendar that uses convolutional neural network to learn your habits and schedule an activity.

### Third Year Project: Virtual Reality and Android Based VR Experience/Game

2018-2019 at Bristol

6 PERSON TEAM

- Created a **Virtual-Reality** based Murder Mystery experience that used BLE (**Bluetooth Low Energy**) **Beacons** and Android Google Cardboard. The final result was an immersive experience with 6 players that used custom created stories in a large room using bluetooth beacons to calculate position for the VR environment.

### Cloud Computing using Amazon Web Services

2018-2019 at Bristol

3 PERSON TEAM

- Created a **fully scalable** video hosting website on AWS using various serverless services such as AWS RDS, AWS Lambdas, AWS DynamoDB and AWS S3. Contributed towards the serverless logic, architecture and databases in the project.

### Amazon Alexa Applications

2018-2019 at Bristol

PERSONAL / INTERNSHIP PROJECT

- Used **NodeJS** to build multiple Amazon Alexa Skills that interacted with a range of AWS APIs. Project is available on my GitHub.

### Smart Augmentation and Social Media for Enhanced hydration amongst peers

2018-2019 at Bristol

7 PERSON TEAM

- Worked in a team to create an external device that tracks motion in water bottles and integrate statistics of drinking into a social peer persuasion methodology to help promote hydration amongst friends
- My work was building the backend and REST-API for the website to interact with these external devices, and push the data to frontend.

## Awards & Publications

---

2019 **Hele Shaw Prize by Faculty of Engineering at University of Bristol**, Awarded for being an all-rounded student with a good academic and social record, and contributing to the faculty through the degree.

2019 **Best Paper Award for Published paper at the Computer Human Interaction Conference (CHI)**, Co-Designing for Inclusion with Visually-Impaired and Sighted Pupils

2017 **Bristol PLUS Award**, Given to a small percentage of students who take action into their employability and gain experience in their field of study

2015 **Barry Thomas Scholarship Award**, Awarded for excellent A Level Results