



Nikhil Kalamannil Oommen



Objectives

Forward thinking and keen Computer Science student at the University of Warwick. Eager to gain experience and develop my skills. Proficient at Mathematics and IT. Capable in Java, C, Python and Website development. Working knowledge of Processing for data visualisation. Interested in data modelling, computer vision, simulation and game development.



Education

BSc Computer Science | University of Warwick

2018-2021

First Year – Upper 1st (Key modules listed)

- Programming – Java, objected oriented principles and design (83%)
- Data Structures – Design and analysis of algorithms in Java (86%)
- Visualization – Processing and presenting data in graphical models (80%)

Second Year – 1st (Key modules listed)

- AI – Knowledge Based Systems, Agents, Searching and Planning (72%)
- Advanced Computer Architecture – CPU, memory design and code optimisation (72%)
- Software Engineering – Project management, Design and Methodologies (69%)

Third Year – Predicted 1st

Modules include: Computer Graphics, Robotics, Machine Learning, Neural Networks and Project Management

A-Levels | Blessed George Napier Roman Catholic School

2016 – 2018

EPQ was a dissertation on the ethics of developing Artificial Intelligence.

Mathematics: A

Further Mathematics: A

Physics: A

BTEC IT: Distinction

EPQ: A*

GCSE | Blessed George Napier Roman Catholic School

2014 – 2016

Four A*'s in Maths and Sciences. A's in English, Computer Science, Geography and Religious Studies. B in Business.



Experience

Software Engineer | iCuris Limited, London, UK - 08/2019 – 09/2020

Start-up company, prototyping and developing a health care product. Python based computer vision projects using TensorFlow and website development using Flask. Worked between university term breaks.

- Utilized OpenPose library human pose estimation.
- Developed, trained and maintained CNN model using TensorFlow.
- Raspberry Pi using GPIO and camera, designed threaded code for automated data capture and processing.
- Worked with and iterated upon Flask REST API, for retrieving and processing data received from raspberry pi.
- Developed website for user registration and device management tools. Technologies included JWT token authentication and jQuery.

Architectural Intern | Cumming Anderton Architects - 07/2017 – 07/2017

- Familiarized myself with AutoCAD software. Designed promotional products in Photoshop for client showcase.

Administration Assistant | Morrisons Supermarket - 09/2016 – 12/2016



Skills and Achievements

- Obtained Morgan Stanley sponsored award for top 10 in class for Data Structures module
- Java, C# and objected oriented design
- HTML, CSS and JavaScript
- Silver awards in Junior, Intermediate and Senior Math's Challenge
- Knowledge of computer hardware
- Proficient with Windows and Linux systems
- Attended Math's Master Classes at the Royal Institution of Math's at Oxford University from Years 9-11
- Clean UK drivers' licence



Projects

Visit nikhil-ko.github.io to view all my current/past projects. Some of the technologies implemented include:

- REST API's with Heroku cloud hosting
- Cloud services – Firebase and Firestore
- Android app development
- Windows Presentation Foundation (WPF)
- TensorFlow
- OpenCV



References

Reference contact details available upon request.