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## Certificate of Achievement

# Matthias Giger

has completed the following course:

**PROGRAMMING 102: THINK LIKE A COMPUTER SCIENTIST**
**RASPBERRY PI FOUNDATION AND NATIONAL CENTRE FOR COMPUTING EDUCATION**

This course covered Python programming at an intermediate level. It covered how to break down problems into smaller parts, and use functions with and return values. It also covered the concept of algorithms, in particular examples of sort and search algorithms.

4 weeks, 2 hours per week

**Dr Sue Sentance**
Chief Learning Officer
Raspberry Pi Foundation

Raspberry Pi

Teach Computing

The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

This learner has not verified their identity. The certificate and transcript do not imply the award of credit or the conferment of a qualification from Raspberry Pi Foundation and National Centre for Computing Education.

TRANSCRIPT

Raspberry Pi

Teach Computing

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### STUDY REQUIREMENT

4 weeks, 2 hours per week

### LEARNING OUTCOMES

- Produce your own functions to break down problems into more manageable parts
- Apply several common search and sort algorithms to data
- Compare the efficiency of algorithms
- Modify functions to take parameters and output return values
- Interpret algorithms expressed in plain English, in pseudocde and as flowcharts

### SYLLABUS

- use functions with parameters and return values
- design and apply algorithms to data
- breaking down problems into smaller parts
- searching and sorting
- efficiency of algorithms
- understanding of list structures and their uses



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