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Frontend^β

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Math^β

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Algorithms

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Databases and SQL^β

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Essentials

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Object-oriented programming

Introduction to OOP

Stage 3

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External resources

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Units of information

Stage 1

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Software design and architecture

The concept of patterns

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Frameworks

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Immutability

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Data and object mapping

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Libraries

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Object-Relational Mapping(ORM)

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Software quality

Bugs and debugging

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Introduction to logging

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Unit testing

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Web technologies

World Wide Web

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HyperText Transfer Protocol

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HTTP URL

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HTTP messages

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HTTP Basic Auth

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REST

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Data formats

JSON

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XML

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Regular expressions

Regexps basics

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Intro to programming

Intro to computational thinking

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Components of computational thinking

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Fields of programming

Natural language processing

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Multithreading and multiprocessing

Synchronous, asynchronous, parallel

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Concurrency and parallelism

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Processes and threads

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Operating systems

Introduction to operating systems

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Command line

Command line overview

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Parameters and options

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Dev tools

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Java

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https://hyperskill.org/knowledge-map

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