**Intro to Node.js**

* RAM vs. I/O latency
* Blocking vs. Non-Blocking
* Event-driven Programming
* Event Loop
* Blocking The Event Loop
* Node.js Philosophy

**Node.js Platform Setup**

* Download and Install
* Node REPL
* First Hello World

**Modules and npm**

* Anatomy of a module
* Private code
* Accessing and using modules
* npm commands
* package.json

**The Callback Pattern**

* What are callbacks
* Callback-last
* Error-first

**Events**

* When to use Event Emitters
* Binding Functions to Events
* Event Requests
* Event Listening

**Error Handling**

* Callbacks: Error-first
* Errors in Event Emitters
* Uncaught Exceptions
* Using Domains

**Buffers**

* Why Buffers exist
* Creating Buffers
* Reading and Writing Buffers
* Manipulating Buffers

**Streams**

* What are streams
* Read and Write Stream API
* Flow Control
* Piping
* Duplex Stream
* Transform Stream

**Socket.io**

* Listening for
* Broadcasting
* Answering questions

**Connecting to Databases**

* No SQL and Document Stores
* Relational DBs
* Configuration and platform setup
* CRUD Operations