KNOW NODE.JS QUICK GUIDE TO THE BEST FEATURES

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KEY TAKEAWAYS

- 1. EVENT LOOP: BRUSH-UP ON THE CORE CONCEPT WHICH ENABLES THE NON-BLOCKING I/O
- 2. STREAMS AND BUFFERS: EFFECTIVE WAY TO WORK WITH DATA
 - 3. PROCESS AND GLOBAL: HOW TO ACCESS MORE INFO

MORE KEY TAKEAWAYS

- 1. EVENT EMITTERS: CRASH COURSE IN THE EVENT-BASED PATTERN
 - 2. CLUSTERS: FORK PROCESSES LIKE A PRO
- 3. ASYNCWRAP. DOMAIN AND UNCAUGHTEXCEPTION: HANDLING ASYNC ERRORS
- 4. C++ ADDONS: CONTRIBUTING TO THE CORE AND WRITING YOUR OWN C++ ADDONS

ABOUT PRESENTER

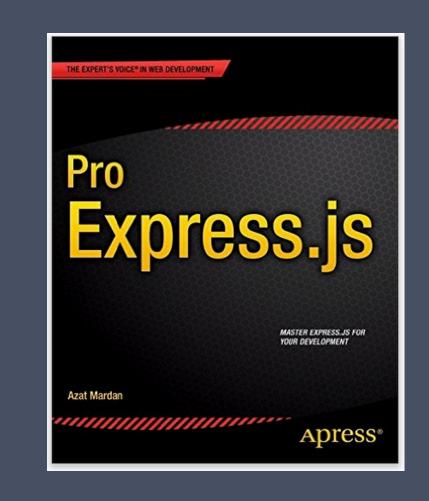
AZAT MARDAN

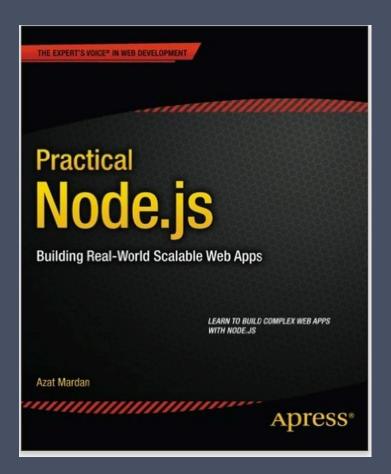


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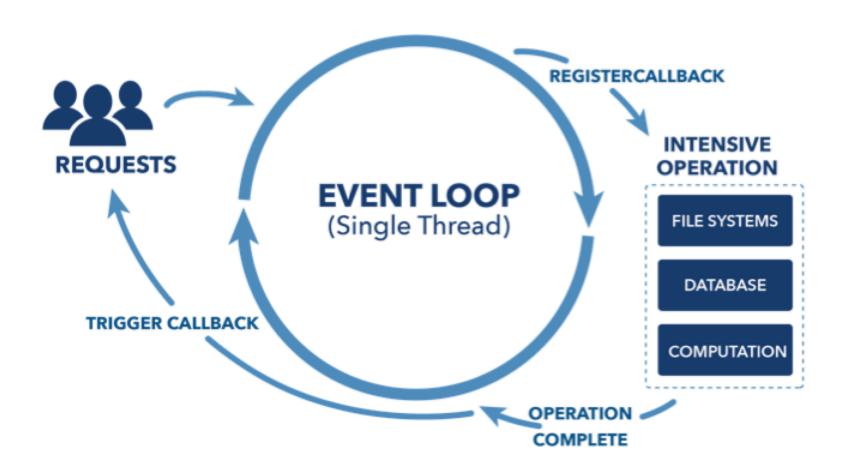
- > TECHNOLOGY FELLOW AT CAPITAL ONE
- > EXPERIENCE: FDIC, NIH, DOCUSIGN, HACKREACTOR AND STORIFY
- > BOOKS: PRACTICAL NODE.JS. PRO EXPRESS.JS AND EXPRESS.JS API





EVENT LOOP





BASIC EVENT LOOP EXAMPLE

```
System.out.println("Step: 1");
System.out.println("Step: 2");
Thread.sleep(1000);
System.out.println("Step: 3");
System.out.println("Step: 4");
```

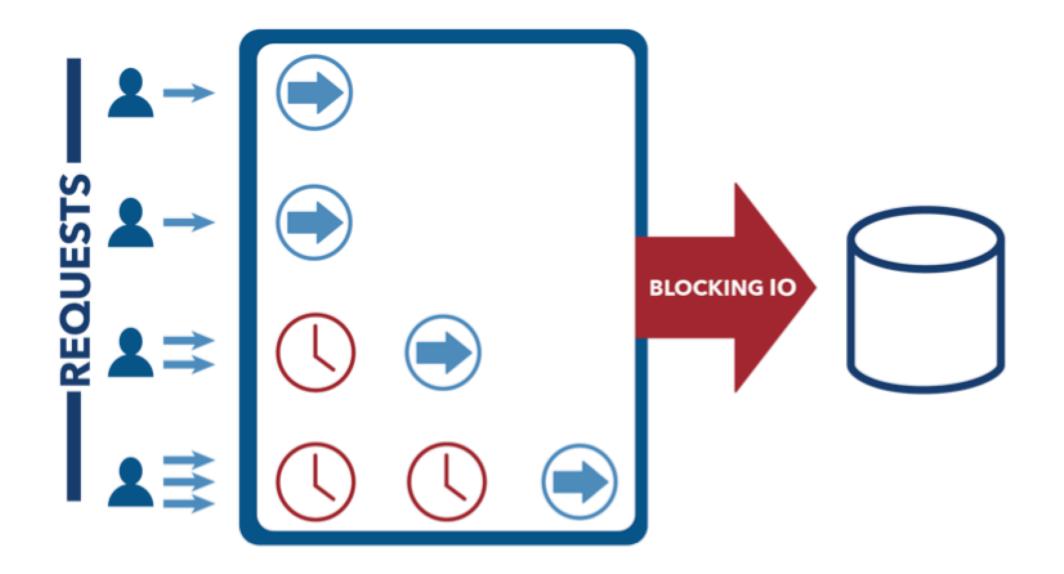
VS.

```
console.log('Step: 1')
setTimeout(function () {
  console.log('Step: 3')
}, 1000)
console.log('Step: 2')
```

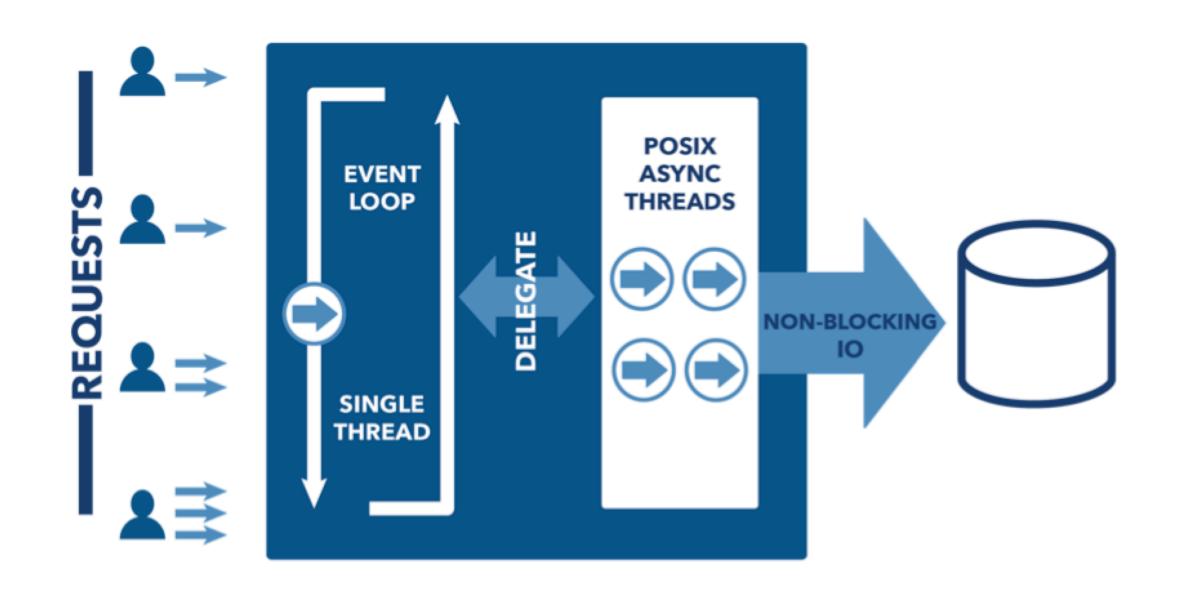
THINKING IN ASYNC CODE

```
console.log('Step: 1')
setTimeout(function () {
   console.log('Step: 3')
   // console.log('Step 5')
}, 1000);
console.log('Step: 2')
// console.log('Step 4')
```









IT'S STILL POSSIBLE TO WRITE BLOCKING CODE IN NODEJS. 69

BLOCKING NODE.JS CODE

```
var fs = require('fs');
var contents = fs.readFileSync('accounts.txt','utf8');
console.log(contents);
console.log('Hello Capital One\n');
var contents = fs.readFileSync('ips.txt','utf8');
console.log(contents);
console.log('Hello SECON!');
```

NON-BLOCKING NODE.JS CODE

```
var fs = require('fs');
var contents = fs.readFile('accounts.txt','utf8', function(err,contents){
   console.log(contents);
});
console.log('Hello Capital One\n');
var contents = fs.readFile('ips.txt','utf8', function(err,contents){
   console.log(contents);
});
console.log("Hello SECON!");
```

STREAMS AND BUFFERS