WOMEN WHO CODE®

MEDELLIN

Frontend Developer and
Software Engineer at
Skillshare

Any Ruiz
Social Media: @anyruizd

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SKILL
SHare.

Skillshare

+

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APIs at Skillshare

Technologies

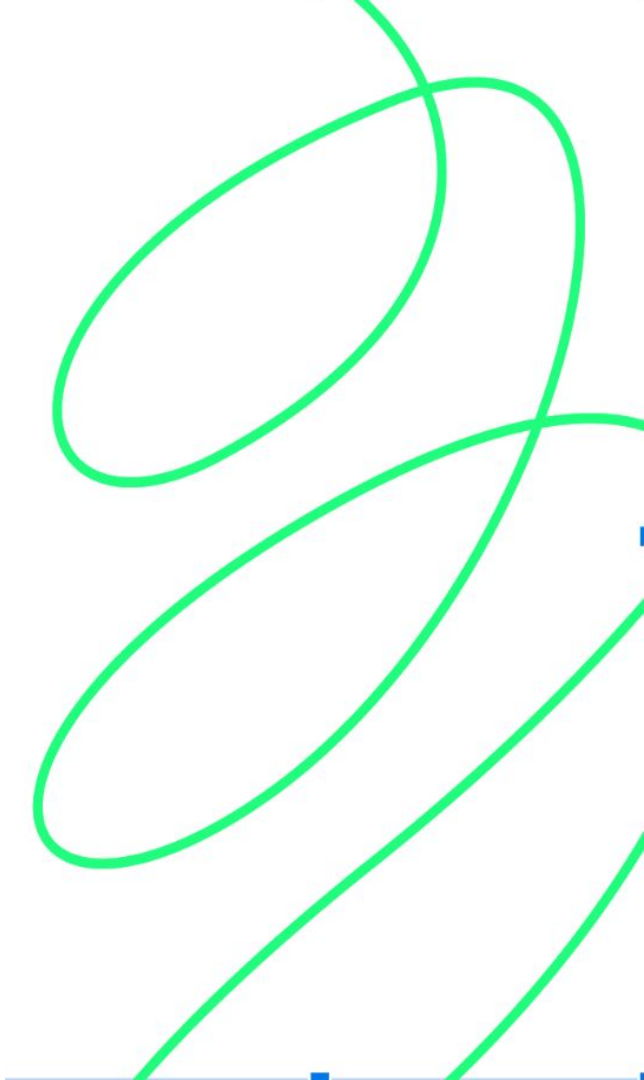
GraphQL (with apollo) + REST APIs.
NodeJS + typescript, PHP, Kubernetes.
Jest, end-to-end Testing.
React, Backbone, NextJs.

SKILL SHARE.

What is Skillshare?

Skillshare is an online learning community with thousands of inspiring classes for creative and curious people, on topics including illustration, design, photography, video, freelancing, and more.

On Skillshare, millions of members come together to find inspiration and take the next step in their creative journey.



SKILL SHARE.

Mission

Inspire discovery through creativity.

At Skillshare, we believe that when we create, we discover who we are. We've seen again and again how the seemingly simple act of creating can be a force for growth and change in people's lives. We want to inspire creative exploration, and expand the power of expression, learning and discovery.

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We Empower

Members to:
Get inspired. Learn new skills. Make discoveries.

Teachers to:
Share expertise. Earn money. Give back.

Employees to:
Be curious. Make an impact. Live a full life.

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Strategic Principles

1: We are a content company.

2: There is power in being an open platform AND a publisher.

3: Teacher success is our success.

4: We believe in the power of community.

5: We believe in learning by doing.

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Working at Skillshare

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Skillshare Company Values

TRANSPARENCY
Open, direct, authentic. We share as much as we can, and expect maturity to handle it.

CURIOSITY
Inquisitive, growth mindset. Grow, evolve, and seek feedback and understanding.

COMMUNITY
One team, collaborative, empathetic. “If you want to go fast, go alone. If you want to go far, go together.”

IMPACT
Results-driven, grit, GSD. Work hard on things that drive results and make a difference.

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Perks and Benefits

1 Benefits

- Competitive Salaries
- Health Insurance
- Parental leave

2 Flexibility

- Work from home Tuesdays
- Work from anywhere for up to one month after your first year
- One-month sabbatical or bonus after three years

3 Development

- Learning and conference stipend
- Ongoing manager training with LifeLabs
- Inclusion workshops with Paradigm

4 Perks

- Laptop and monitor
- Quarterly company outings
- Quarterly Business Reviews in NYC (dependent on Visa)

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Open Roles, Colombia Office

Senior Fullstack Engineer, Growth

In this role, you'd help drive experimental projects to help support our growing community across the entire user experience, from signup to onboarding to checkout.

Staff Software Engineer, Personalization

As our first Personalization Engineer at Skillshare, you'd be building out the foundations of a micro-services based Personalization system that will connect our users to the right content.

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Looking for more info?

- **About Skillshare:** https://vimeo.com/380822492
- **Careers Page:** https://www.skillshare.com/careers
- **Skillshare Blog:** https://www.skillshare.com/blog/company-page
- **Company Culture:** https://www.builtinnyc.com/company/skillshare
- **5 best places to work for Women:** https://www.bpeace.org/events/423-bpeace-announces-the-five-best-places-to-work-for-women

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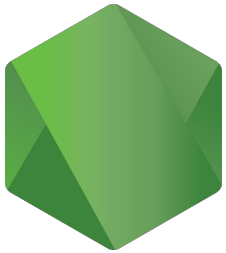
NODEJS server

But first...

Prerequisites



NodeJs

VSCode

Cygwin

Postman / Insomnia

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Goals

 Learn about web servers.

 Learn basic concepts of HTTP as a protocol and a Node module.

 Learn to handle requests.

 Create your own JSON api server.

 Create your own file server.

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What is Node?

A tool for writing two major types of programs:

 Network programs that use the protocols of the web.

 Programs that read and write data to the filesystem or local processes/memory.

What is a Web Server?

 A computer that stores website's component files and serve them.

 A piece of software that understands HTTP.

Review

What is HTTP?

 HyperText Transfer Protocol.

 Used for transmitting hypermedia documents, such as HTML.

 Designed for communication between web browsers and web servers.

 HTTP flow main elements: Request and response.

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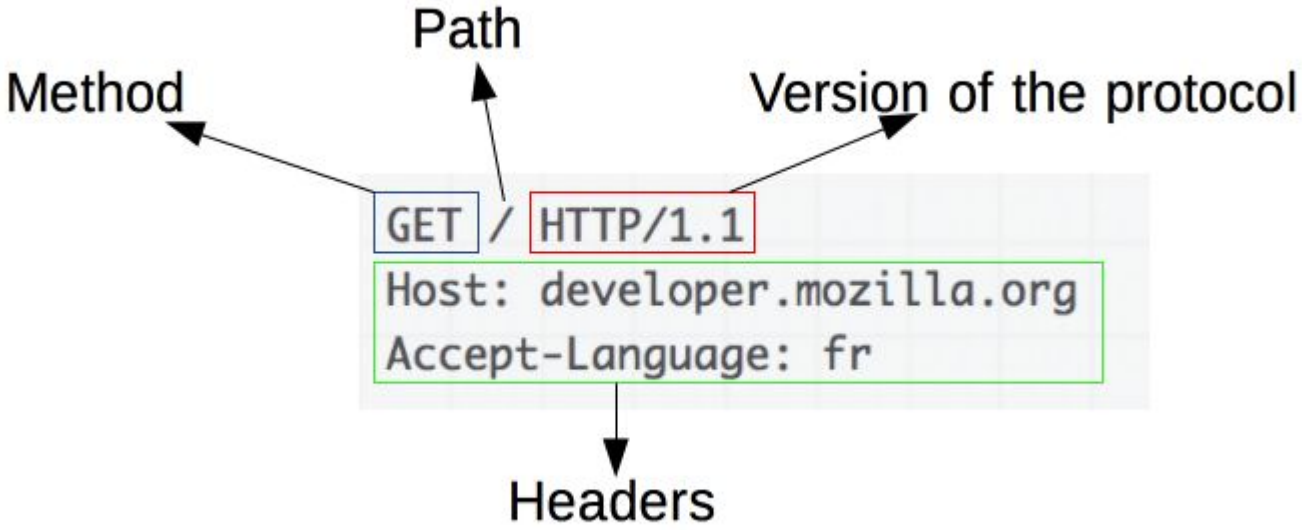
Review

HTTP Request



Review

HTTP Request Methods/Verbs

 Indicate the desired action to be performed upon a resource.

 The GET method retrieves data from the server.

 The POST method sends data to the server.

 More methods: PUT, DELETE, CONNECT, OPTIONS, HEAD.

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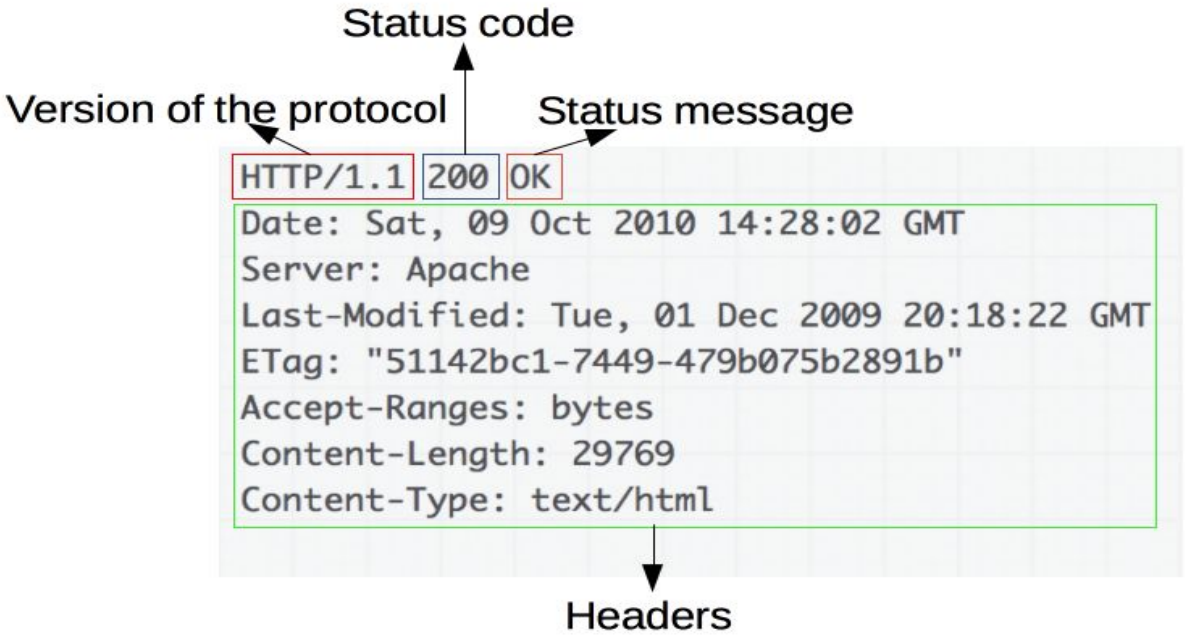
Review

HTTP Response



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Review

HTTP Status Response Codes

📈 Indicate if a specific HTTP request has been successfully completed.

✔️ 200 OK -› The request has succeeded.

❌ 404 Not Found -› The server can not find the requested resource.

 418 I'm a teapot -› the server refuses to brew coffee.

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Hello World

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.argv[2]

const server = http.createServer((req, res) => {
  res.statusCode = 200
  res.setHeader('Content-Type', 'text/plain')
  res.end('Hello World!\n')
})

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`)
})
```

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Hello World

1. Include http Node module

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Hello World

2. Create a new HTTP server using the createServer() method

```
const http = require('http')

const server = http.createServer((req, res) => {
    /* awesome code goes here */
})
```

Whenever a new request is received, the request event is called, providing two objects:

Req: Provides the request details.
Res: Used to return data to the caller.

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Hello World

3. Listen the server on the specified port and hostname.

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.argv[2]

const server = http.createServer((req, res) => {
    /* awesome code goes here */
})

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`)
})
```

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Hello World

4. Set the statusCode property to 200, to indicate a successful response.

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.argv[2]

const server = http.createServer((req, res) => {
  res.statusCode = 200
})

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`)
})
```

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Hello World

5. Set the content type header.

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.argv[2]

const server = http.createServer((req, res) => {
  res.statusCode = 200
  res.setHeader('Content-Type', 'text/plain')
})

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`)
})
```

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Hello World

6. End close the response, adding the content as an argument

```
const http = require('http')

const hostname = '127.0.0.1'
const port = process.argv[2]

const server = http.createServer((req, res) => {
  res.statusCode = 200
  res.setHeader('Content-Type', 'text/plain')
  res.end('Hello World!\n')
})

server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`)
})
```

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Let's code!

Write an HTTP server that when it receives a GET and a POST request serves JSON data depending on the path and method:

- GET
    1. '/api/doggo': Should return a json containing info about dogs.
    2. '/api/kitty': Should return a json containing info about cats.
- POST

    Should return an json with the body of the request and a message of success.

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Let's code! Extra

Write an HTTP server that serves the a text file for each request it receives. Your server should listen on the port provided by the first argument to your program.
The location of the file to serve will be provided as the second command-line argument. You must use the fs.createReadStream() method to stream the file contents to the response.

Read: https://nodejs.dev/nodejs-streams

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Node Streams

 A data-handling method used to read or write data sequentially.

 Are used to optimize the memory usage.

 Can be thought of as a infinite source of data.

 Streams read chunks of data piece by piece.

 Buffers are the place where the raw data is stored to process.

 Pipes are used to consume streams.

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Preguntas

Questions -----> @wwcodemedellin

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Useful links

1. https://nodejs.dev/introduction-to-nodejs
2. https://github.com/maxogden/art-of-node#understanding-node
3. https://developer.mozilla.org/en-US/docs/Learn/Server-side

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Thank you!

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