

# Augustus

An AI-powered chatbot fine-tuned for building UI/UX in nextjs 13.



A u g u s t u s

# Overview

Augustus

## Motivation

How does Augustus address challenge problem?

## Internals of Augustus

How makes Augustus tick?

## Features

What can Augustus do?

## Outlook

What Augustus will be able to do?

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## Where to start?

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Some of the best UI/UX experiences out there are use-case and domain-specific (Amazon, Cash App, etc).

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## Where to start?

Some of the best UI/UX experiences out there are use-case and domain-specific (Amazon, Cash App, etc). Solving this even for a particular case requires domain-specific knowledge.

# Motivation



How does Augustus address the challenge problem?

But what if ... 

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... we can fast-track (10x  $\rightarrow$  100x) development-cycle of someone ( ) with somewhat of an idea of the domain-specific and nuanced knowledge for a specific UI/UX?



# Motivation

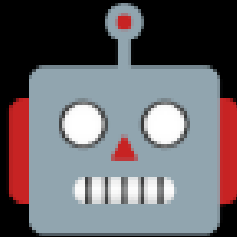
How does Augustus address the challenge problem?

But what if ... 

... we can fast-track (10x  $\rightarrow$  100x) development-cycle of someone ( ) with somewhat of an idea of the domain-specific and nuanced knowledge for a specific UI/UX? e.g. Quickly iterate over user feedback and live test with A/B testing.

# Motivation

How does Augustus address the challenge problem?



# Motivation

How does Augustus address the challenge problem?

Andrej Karpathy 

@karpathy · [Follow](#)



The hottest new programming language is English

10:14 PM · Jan 24, 2023



23.6K



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# Motivation

How does Augustus address the challenge problem?

## Solution

Augustus leverages multi-modal LLMs to help developers iterate their UI/UX designs in record time.

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# Internals of Augustus

What makes Augustus tick?

Augustus is a multi-modal AI-powered chatbot fine-tuned for building UI/UX in nextjs 13.

# Internals of Augustus

What makes Augustus tick?

Internal design principles for UI/UX, for a example an internal UI/UX component library along with its documentation, and usage examples:

Example 1: Alert

```
import { Terminal, Waves } from "lucide-react"

import {
  Alert,
  AlertDescription,
  AlertTitle,
} from "@components/ui/alert"

export function AlertDemo() {
  return (
    <Alert>
      <Terminal className="h-4 w-4" />
      <AlertTitle>Heads up!</AlertTitle>
      <AlertDescription>
        You can add components to your app using the cli.
      </AlertDescription>
    </Alert>
  )
}
```

# Internals of Augustus

What makes Augustus tick?

curate a dataset made up of desired output given a prompt

```
{
  "messages": [
    { "role": "system", "content": "Augustus is an expert UI/UX developer." },
    { "role": "user", "content": "Generate an alert dialog?" },
    { "role": "system", "content": "() => <Alert>...</Alert>" }
  ]
}

.
.
.
,

{
  "messages": [
    { "role": "system", "content": "Augustus is an expert UI/UX developer." },
    { "role": "user", "content": "Generate an alert dialog in dark mode" },
    { "role": "system", "content": "() => <Alert className='bg-black'>...</Alert>" }
  ]
}
```



# Internals of Augustus

What makes Augustus tick?

## MODEL

**ft:gpt-3.5-turbo-0613:personal::879MdXy7** 🟢 Succeeded

🔍 Job ID `ftjob-P4bDkuZQpsPXp108Frwwm9Ub`

📦 Base model `gpt-3.5-turbo-0613`

🕒 Created at `Oct 7, 2023, 11:36 PM`

🔍 Trained tokens `74,320`

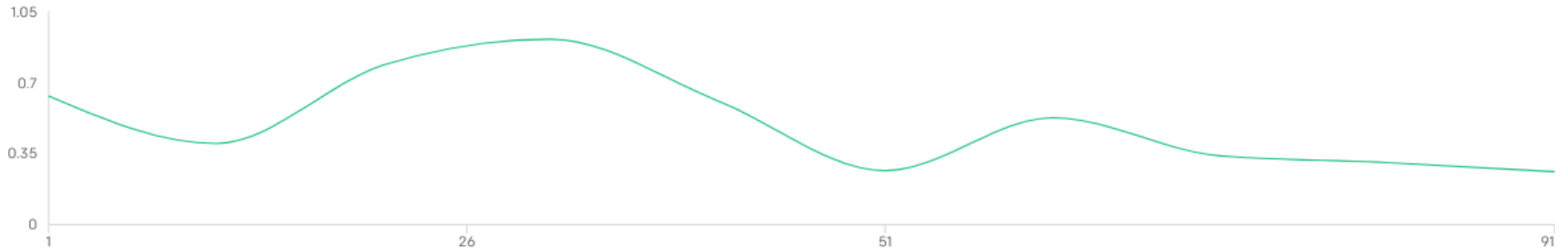
🔄 Epochs `4`

### Files

Training [fine\\_tuning\\_data\\_v3.jsonl](#) 🔗

Validation `-`

📊 Training Loss 0.2606



# Internals of Augustus

What makes Augustus tick?

⚡ Save Fork Share

Next.js Starter

Open in New Tab Close

page.tsx X

stackblitzstartersxikkxq-l2gr--3000--129a5d66.local-credentialless.webcontainer.io

```
16 </div>
17 <p className="max-w-[600px] text-zinc-200 md:text-xl dark:text-zinc-100 mx-auto">
18   Augustus leverages multi-modals LLMs to help developers iterate
19   their UI/UX designs in record time.
20 </p>
21 </div>
22 <div className="w-full max-w-sm space-y-2 mx-auto">
23   <form className="flex space-x-2">
24     <input
25       className="max-w-lg flex-1 bg-gray-900 text-white border-gray-900"
26       placeholder="Enter your email"
27       type="email"
28     />
29     <button className="bg-white text-black" type="submit">
30       Join Now
31     </button>
32   </form>
33 </div>
34 </div>
35 </div>
36 </div>
37 </section>
38 </div>
39 </div>
40 </div>
```

Terminal

```
⚠ Attempted to load @next/swc-linux-x64-musl, but an error occurred: Cannot load native addon because loading addons is disabled: /home/projects/stackblitz-starters-xikkxq/node_modules/@next/swc-linux-x64-musl/next-swc.linux-x64-musl.node
▲ Next.js 13.5.1
- Local: http://localhost:3000

✓ Ready in 24.7s
  ○ compiling /page ...
  ✓ Compiled /page in 106.2s (530 modules)
  ✓ Compiled in 3.6s (530 modules)
  ✓ Compiled in 1706ms (530 modules)
  ✓ Compiled in 1884ms (530 modules)
  ✓ Compiled in 1893ms (530 modules)
  ✓ Compiled in 1925ms (490 modules)
```

## Augustus

Augustus leverages multi-modals LLMs to help developers iterate their UI/UX designs in record time.

Join Now

# Internals of Augustus

What makes Augustus tick?

DeLicht

pagetsx x

stackblitzstartersxikkxq-l2gr--3000--129a5d66.local.webcontainer.io

```
15 |         bg-gradient-to-r from-white to-gray-500">
16 |         Augustus
17 |     </h1>
18 |     <p className="max-w-[600px] text-zinc-200 md:text-xl dark:text-zinc-100 mx-auto">
19 |         Augustus leverages multi-modals LLMs to help developers iterate
20 |         their UI/UX designs in record time.
21 |     </p>
22 | </div>
23 | <div className="w-full max-w-sm space-y-2 mx-auto">
24 |     <form className="flex space-x-2">
25 |         <input
26 |             className="max-w-lg flex-1 bg-gray-900 text-white border-gray-900"
27 |             placeholder="Enter your email"
28 |             type="email"
29 |         />
30 |         <button className="bg-white text-black" type="submit">
31 |             Join Now
32 |         </button>
33 |     </form>
34 | </div>
35 | </div>
36 | </div>
37 | </section>
38 | );
39 | }
40 |
```

Terminal

Caused by:  
0: failed to process js file  
1: Syntax Error  
Import trace for requested module:  
./app/page  
o compil  
✓ Compil  
✓ Compil  
⚠ Fast R  
✓ Compil

Regenerate response

File to Edit: app/page.tsx

Include file in instructions

Send a message.

## Augustus

Augustus leverages multi-modals LLMs to help developers iterate their UI/UX designs in record time.

Enter your email

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2x1k on StackB Editor Preview Both

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What Augustus will be able to do?

- Improve code generation (larger dataset)



# Outlook

What Augustus will be able to do?

- Improve code generation (larger dataset)
- Improve speech recognition (OpenAI Whisper)

# Outlook

What Augustus will be able to do?

- Improve code generation (larger dataset)
- Improve speech recognition (OpenAI Whisper)
- Vision modality (Upload figma design)

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