



# Product Showcase

HEX - Pearson Brasil

by Holberton.Inc



# About Holberton:

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Holberton's mission is to help solve the biggest problems in education, starting with technology to:

Fill the Global Skills Gap

Empower Economic Development and Geographies Attractiveness

Reinforce Upward Social Mobility with Accessible and Affordable Education

How do we do that?

Educators are masters of their craft, but far too often, archaic technology gets in the way and holds them back.

Holberton's OS of Education\* helps educators excel at what they do by providing tools to automate the monotonous and streamline the teaching experience, so they can focus on what's really important, students!

*\*The OS (Operation System) of education is a platform and a basis for managing your education business, providing part or all of the tools and content you may need, functioning as bricks that integrate or with your existing platforms and programs.*

# Scope of the Project:

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Course:	SELF-PACED	Client:	 Pearson
Format:	ONLINE	Region:	 Brasil
Level:	INTRO to ADVANCED	Launch Date:	March 2021
Student Background:	NO CODE EXPERIENCE	Project Name:	
Length:	12 MONTHS		
Holberton Products:	TOOLS PROGRAMS ONLINE PLATFORM		
Programs:	FOUNDATION SPECIALIZATION		

# About HEX:

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Builded on the success of Holberton School curriculum, HEX was designed to help busy individuals develop the skills they need to start their career in Full Stack Web Development; this unique training offers a project-based program paired with a flexible, online, and self-paced schedule and affordable pricing to help busy professionals transition to Web Development.

Holberton and Pearson, the worldwide education leader, partnered to bring this new offering specifically tailored for the Brazilian market.

# HEX - Curriculum

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## PROGRAM INTRODUCTION

Web Development is one of the fastest-growing careers. With this self-paced program designed in Silicon Valley, students will learn to become a Full-Stack Web Developer. **In as little as 12 months, students will be ready to create modern, robust web applications.**

## INDICATED FOR (I.E., AUDIENCE):

The program has been **designed to help busy individuals develop the skills they need to start their career** as Full Stack Web Developer through a flexible online format.

The curriculum is **designed to teach people with little or no prior experience in web development**, from those that want to switch careers to those looking for a more practical supplement to their education

## METHODOLOGY:

Project-based, self-paced program.

**In this program, written in English, there are no lectures.**

Working on 80 different projects ranging from the fundamentals of C to building your web App, the curriculum is extensive and in-depth. Projects come with a set of online resources to find the solution on how to complete tasks.

**Project-based learning is a proven alternative learning methodology** to the traditional teacher-led lecture and memorization educational pedagogy. Benefits from project-based learning include:

- Problem-solving
- In-depth understanding
- Perseverance

**Self-paced learning allows students to progress through the program on their terms.** If students need to spend longer on a challenging concept, they have the freedom to do so without deadlines to meet.

The majority of the projects are automatically reviewed on-demand so that students get granular feedback based on their code as frequently as requested.

The pathway is designed to be done part-time and self-paced so students can continue working or continue their education while learning the skills needed to become a Full Stack Web Developer.

## **PROGRAM CONTENT:**

- Git
- Unix system - navigation and file management
- Unix system - I/O and redirections
- Foundations of programming - variables and conditional statements in C
- Foundations of programming - functions and loops statements in C
- Memory access - pointers in C
- Memory management - memory allocation in C
- Data structures in C, including linked lists
- HTML
- CSS
- SASS
- Flexbox
- Responsive design
- Forms
- Webpage integration
- Foundations of programming in Python
- Data Structures in Python
- Foundations of OOP in Python
- OOP Inheritance in Python
- Web Server in Python
- Web Scraping in Python
- Foundations of programming in Javascript
- DOM and in-browser Javascript
- Web Server in Javascript
- Web Scraping in Javascript
- Personal data
- User basic authentication
- User session authentication
- User management API
- Caching algorithm
- Pagination concept
- Database - MySQL
- Database - NoSQL
- Database - Key storage in Redis
- Modern Javascript ES6
- Typescript
- Foundations of front-end framework with React
- React props
- React component
- React inline styling
- React state
- React Redux action creator and normalizr
- React Redux reducer and selector
- React Redux Connectors and Providers

*"In a world that is increasingly fast and constantly, we have to reinvent ourselves at all times. With this strategic partnership to offer Holberton classes at Pearson Next, students will develop essential skills to succeed in the Technology market, in a methodology that is a global success in one of the most innovative schools in Silicon Valley "*

**Eduardo Leite,**  
**Innovation manager at Pearson Latam**



## **Connect with our team!**

Our projects-based programs are designed with your success in mind.

We offer emerging technology Specialization programs:

- Full-Stack Web Development,
- Augmented Reality & Virtual Reality
- Low Level and Algorithms,
- Machine Learning,
- DevOps,
- Front-end Web Development,
- Back-end Development,
- And many more, depending on your needs.

All programs can be customized based on your needs; you specify the length, the pace, and the pedagogical goals.

**Let's get started! Book a Call!**

**[www.holberton.us](http://www.holberton.us)**