

# **18-month Program**





School Location Logo

# Become a Software Engineer -For real

Our intensive program will first introduce you to the Foundations of computer science and Software Engineering, then specialize in what drives you.

The first three sprints of our program covers the Foundations of Computer Science and Software Engineering, including Linux, data structures, algorithms, low-level programming languages, high-level modern languages, databases, APIs, and DevOps.

Then, the last 3 sprints will be dedicated to Low-Level and Algorithms.



### What to Expect

#### 1) No pre-course

Holberton School does not expect students to come in with previous software engineering experience (although if you do have experience, that's awesome too).

There is no **pre-course** work (that's why you are attending a school after all), but we do recommend that you read through The C Programming Language book by Kernighan and Ritchie or Programming in C by Stephen Kochan.

The goal of reading through the book is not to deeply understand all the concepts, but to familiarize yourself with key terminology and content.

#### 2) Coursework

We are training you to be a full-stack software engineers in 12 months. The program will be intense.

There are no formal teachers or formal lectures. Students are learning by creating and we rely on peer-learning, collaboration, and industry-relevant curriculum to guide the way.

There is no competition here at Holberton School, rather students are helping each other towards their goals. Of course, there is also technical staff available to answer questions and extend support.

#### 3) Professional development

We know that the skills to get a job are different from the skills to be good at a job. From week zero, we immerse students in professional growth and development via workshops, projects, meetups, and work simulations.

Whiteboarding, mock interviews, professional networking, and more begin as soon as students start the program so that they're confident and competent when the time comes to prove they're ready for the job.

#### 4) Soft Skills

In today's tech world, it's not enough to be good at technical skills, you need to be a clear communicator as well.

We push our students to work on their public speaking skills, to publish blog posts to online tech communities and publications, and to speak at conferences and meetups.

This not only prepares students to be team players and clear communicators, but creates amazing networking opportunities.

#### 5) Included in All Holberton School Sprints

Technical writing: It is an invaluable skill and an excellent way to articulate and share your knowledge.

Collaboration: It's key to successful business. You will learn project management, interpersonal communication, and team collaboration skills.

The Framework: it provides the structure, order, and balance necessary to maintain a productive peer learning environment and will help you succeed throughout your career.

Whiteboarding: it is an essential skill in the tech industry, both for effective planning and for excelling in tech interviews.

Mock Interviews: it is not enough fo you to know the answers to the questions; you need to be able to clearly communicate your thought processes and understanding

### What You'll Learn

#### **Foundations of Computer Science**

This foundational knowledge of how computers and programming languages work will allow you to optimize and debug anything later on in your professional career. You will also begin working with algorithms and data structures which are essential foundations for great Software Engineers - the type that the best companies hire.

In the first sprint of foundations, you'll work in C and Unix programming, graphical programming, data structures, assembly language, and algorithms as well as reverse engineering and security protocols.

From there, you are introduced to higher-level languages, increasingly advanced algorithms, space and time complexity, database management, and Front-End programming. Using the latest technologies, you will begin to create a complete web application project that will span the rest of the foundations sprints.

The final sprint of foundations emphasizes automation, scalability, and reliability, so that you are familiar with the infrastructure and best practices similar to those in tech powerhouses. Alongside a continuation in web development, you'll also advance in algorithmic understanding, technical writing, debugging, and project management.

#### **Examples of Projects**

- Write your own printf function
- Web stack debugging
- Clone a marketplace
- Code your own shell



- Postmortem - Webstak debugging - Portfolio project

### Low Level & Algorithms

#### **Cutting edge engineering**

Throughout this program, you will extend your knowledge of the C programming language, dig deeper into the Linux operating system. You will also be challenged with advanced data structures and algorithms, and you will uncover all the mechanisms behind the blockchain technology by building your own basic cryptocurrency, from scratch.

Holberton School's System Programming and Blockchain program will equip you to be well-versed in C, Linux kernel (signal, thread, file stream, IPC, ELF, etc.), advanced trees, graph, pathfinding, cryptography, block mining, blockchain, and more.

This specialization builds a solid foundation for students who aim to become capable, well rounded Software Engineers who are as comfortable programming a blockchain as they are developing on embedded systems and self-driving cars.

Typical job titles could include: Software engineer, embedded system programmer, SRE, Junior Blockchain engineer.

The last sprint is dedicated to building a personal web project on the technology of a student's choice.

#### **Examples of Projects**

- Create your own advanced Shell and Is program
- Create your own Malloc
- Build your own web server in C
- Advanced algorithm design
- Blockchain implementation in C

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### **The application Process**

Our selection process is based only on talent and motivation. We don't care what degrees you may or may not have if you have any previous programming experience. If you possess curiosity, determination, and drive to succeed, then we want you as a Holberton School student.

Our automated admissions process aims to remove human biases. It was created specifically to identify smart, motivated people and doesn't take into account previous education, work experience, gender, ethnicity, or age. There's also no cost to apply. — the only requirements are you must be 18 years old.

Start your application today: https://apply.holbertonschool.com/

# **Flexible Tuition Options**

We don't think that financial capacity should be a barrier. That's why at Holberton School, we offer flexible tuition options that allow you to focus on school, not tuition.

Holberton through its alliance with Anáhuac, bring this opportunity to México with a flexible financial plan. We offer minimum payments that allow you to focus on your education.

Twice a week, we have live meetings where you can check the total cost of the program you are interested in, scholarships, and personalized financing options.

Contact us and an advisor will review your case to provide you the best scenario.

### **Contact us**

Connect with your local campus. Check out our <u>Locations</u> page to find contact information and explore events, workshops, and networking opportunities in your city.

You can contact us by mail: <u>holberton.online@anahuac.mx</u> or by Whatsapp: +52 55 7235 1486.

Also, you can find us on social media like Holberton México.