Hello World’s mission is to build autonomous learners who have positive experiences with computer science, approach and solve problems like engineers, and grow true programming and computational capabilities that can be applied to any field. All levels are welcome, including those that are new to computer science and those with many years of experience. Students learn directly from our team of industry leaders, including software engineers, artificial intelligence architects, and data scientists to prototype and test solutions to real world challenges. Courses are hosted at Khan Lab School, a non-profit independent school associated with Khan Academy based in downtown Mountain View, currently serving students ages 5 - 16+. Students will be separated into groups by grade and those with prior programming experience will be placed in more advanced levels.

Artificial Intelligence & Self Driving Cars
June 8 - 13 | 9am - 5pm | Ages 7 - 10 | Khan Lab School in Mountain View, CA
This course tracks along the Python vertical and integrates a range of topics at the nexus of AI and the highly anticipated revolution of self-driving cars. Students will program and test real hand-held cars with built-in computer vision and AI capacities to be self-driving through Python code; this precisely simulates the engineering concepts behind modern day self-driving cars. Coursework includes practical experience with data modeling and machine learning (e.g. training a car to identify stop signs) as well as the policy and urban planning implications of self-driving cars.

Data Science & Artificial Intelligence
June 8 - 13 | 9am - 5pm | Ages 11 - 18 | Khan Lab School in Mountain View, CA
This course tracks along the Python vertical and integrates a range of topics at the nexus of computer science, data science, and artificial intelligence, with a focus on natural language processing. Students gain experience with Pandas, Sci-Kit Learn, and other software libraries written for data manipulation and analysis. This discipline emphasizes scientific literacy as well as programming and leaves students better able to think critically about data and studies they are presented with through various mediums. Students apply their learning by addressing various scientific concerns: what makes for a good hypothesis, how to measure data, how to ensure your results are accurate and unbiased, and how to draw meaningful conclusions.
What to Expect

Hello World courses are modeled after college and graduate-level computer science and engineering programs and are focused on building autonomous learners who can approach and solve problems like engineers. Students are faced with a series of complex, real-world challenges and are tasked with using sophisticated programming tools to solve them. These challenges reflect a mixture of self-directed learning experiences and those that involve deep team interdependencies and collaboration. Our blended learning platform tracks along various programming language verticals including Python, HTML/CSS/JavaScript, C/C++, Java/C#, and Swift.

Key Program Features

**Self-Paced Learning:** Students direct the pace of their own learning with 1:1 support from engineers and can access course challenges and projects within and outside of class.

**Level Bands:** Each vertical represents levels within a programming language and enables students to build fluency and complete increasingly rigorous projects and challenges.

**Limitless Ceilings:** Because learning is self-paced, students can grow multiple level bands during one course.

**Teamwork and Group Challenges:** Students practice new concepts in teams within the same level band and engage in tasks that require meaningful collaboration.

**Community & Culture Building:** Students build a sense of community, create lasting friendships, and experience a shared sense of pride in our work.

**Career Readiness:** Students engage in learning experiences that provide exposure to a range of engineering and computer science fields, including a visit to a tech company.

All courses track along different Hello World verticals, such as Python (shown below), HTML/CSS/JavaScript, C/C++, Java/C#, and Swift.

An Immersive Experience

**STUDENT PORTFOLIOS**
Each student develops a portfolio of coding projects to demonstrate mastery of concepts; can be used for internships, jobs, and college applications

**SATURDAY SHOWCASE EVENT**
Students present their learnings on the final Saturday - friends and family are welcome!

**FIELD TRIP & SPEAKER SERIES**
Shadow engineers at work and hear from a range of engineers to demonstrate breadth of field

**STUDENT PROGRESS TRACKER**
Updated and shared with families based on student progress on course challenges and projects

**INQUIRY BASED LEARNING**
Students are tasked with building projects that drive their own learning of the required programming skills and concepts

Enroll at www.helloworldstudio.org
For questions, e-mail molly@helloworldstudio.org or call 650-489-0071