IN THE NEW DIGITAL WORLD, 75B DEVICES ARE BRINGING CLOUD-NATIVE CONCEPTS TO THE EDGE.

ARE YOU INVESTING IN THESE TOP 10 SKILLS FOR IOT DEVELOPERS?







MACHINE LEARNING AND AI Analyzing large amounts of data

01

requires deciphering patterns and predicting outcomes. As IoT becomes more complex and ubiquitous, Al will need to handle more tasks and make autonomous decisions.

DESIGNING FOR DATA Big Data drives the digital world,

02

and the job of software engineers, network engineers, and UX engineers is to make the data work seamlessly for users who must read and interpret it in a meaningful way.





AUTOMATION A McKinsey survey found that 40% of the value of IoT is in its operability. Given the large number of interfaces,

03

developers who can connect automatic API testing with manual testing will be the ones who get their products to market.



is secure and reliable—and also able to handle enormous traffic. Developers must know the basics of OSI stack, the latest standards in IoT communication, and how connectivity protocols work.





06

for IoT engineers. They must know how to program interfaces, such as GPIO and I2C; understand at least one operating system, such as Linux; and know one embedded system, such as Contiki.

HARDWARE

INTERFACING

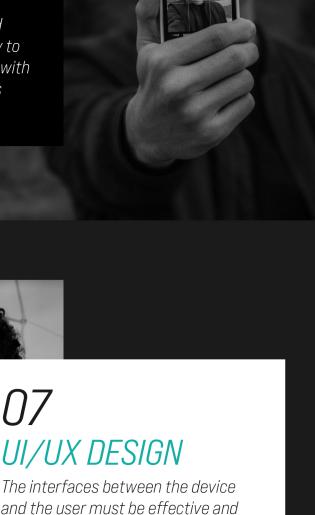
Hardware programming is essential

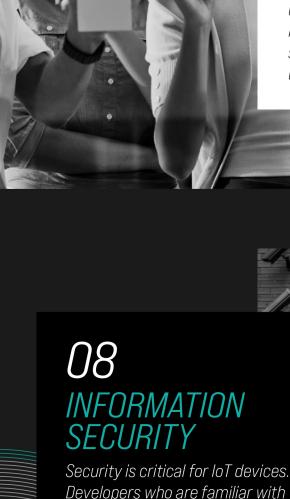
05

highly marketable.

MOBILE DEVELOPMENT

Most IoT devices will be managed through smartphones. The ability to develop apps that communicate with external hardware and sensors is





vulnerability assessment, public key infrastructure (PKI) security,

user in mind are prized.

user friendly, or the consumer won't buy. Responsive web design and service design that keeps the end

ethical hacking, and wireless network security will be key players.

09

BUSINESS

INTELLIGENCE

IoT is all about collection, storage, and analysis of streams of data from smart devices. Needed skill sets include sensor data analysis, data center management, predictive

analytics, and programming in



Hadoop and NoSOL.

and mechanical engineers, industrial and embedded systems designers,

back-end and front-end developers. and a product manager. The better each team member understands every other role, the purpose of the system, and the end user of the system, the better the entire system

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