THE FUTURE OF THE FIELD OF SOFTWARE ENGINEERING

When the first digital computers appeared in the early 1940s, the instructions to make them operate were wired into the machine. Practitioners quickly realized that this design was not flexible and came up with the "stored program architecture" or von Neumann architecture. Thus the division between "hardware" and "software" began with abstraction being used to deal with the complexity of computing.

Source: en.wikipedia.org

THERE ARE VARIOUS FIELDS IN SOFTWARE ENGINNERING WHICH INCLUDE SOFTWARE DEVELOPMENT, DESIGN, REQUIREMENTS, MAINTENANCE & TESTING.

Many software engineers work as employees or contractors. Software engineers work with businesses, government agencies, and non-profit organizations. Some software engineers work for themselves as freelancers.

Knowledge of computer programming is a prerequisite for becoming a software engineer. In 2004 the IEEE Computer Society produced the SWEBOK, describing the body of knowledge that they recommend to be mastered by a graduate software engineer.

The Software Engineering Institute offers certifications on specific topics like security, process improvement and software architecture. IBM, Microsoft, etc. also sponsor their own certification examinations.

The initial impact of globalization as in outsourcing, and the relatively lower cost of international human resources in developing third world countries led to a massive migration of software development activities from corporations in North America and Europe to India and later: China, Russia, and other developing countries.

The future of Software Engineering, however, seems brighter than ever.