**Full Stack Developer**

**Industry Demand of Full Stack Developer**

Full stack developer, as it is called “Full-stack”, is a person who develops websites or applications from end-to-end. They are able to create back-end coding as well as front-end. Working alone as a freelancer or being one of the employees in a company are some of the way to be a Full Stack Developer.

Currently (2021) Full Stack Developer is highly demanded in every sector and company. The business shifts and grows to a more digital-oriented platform, thus it is important to have someone who works on developing the brand digitally, one of them by creating a website or applications.

According to Bureau of Labor Statistics data, this job is expected to grow 13 percent from 2018–2028, much faster than the average occupation. Aside from being demanded by the company, being a Full Stack Developer is one of the goals of a Computer Science bachelor, because the high salary paid, but also comes with consequences for working more than 40 hours a week.

**Salary (Range)**

* Entry level in US $102,692 per year
* Mid level in US $130,225 per year
* Entry level in Indonesia Rp100.500.000 per year
* Mid level in Indonesia RpRp183.600.000 per year

**Core Tasks**

* Translates client’s need (related to website/apps) to a website or apps
* Coding, build a website from scratch based on client’s or company requirements
* Ensure that the code build nicely, so it will be useful for future development
* Optimize website usability and security
* Ensure that the website designed is stable and can be accessed by target user
* Constantly checking and testing if there is any bugs or code error
* Sometimes (but not always) design a web or mobile app interface
* Keeping up with technological updates to optimize the website or mobile apps

**Working Conditions**

* Work in front of computer most of the time
* They are usually receive a task from their manager and discuss with respective team especially if there is any obstacle
* Require patience and high motivation to solve problem related coding (bugs, code not working)
* Freelance usually work with clients
* May require some travel (for live testing purpose)

**Skills Required**

* Coding (programming language : C++,JavaScript, Python)
* Git and GitHub
* APIs like REST and SOAP as well as protocol like HTTP
* A bit about graphic design and visual communications skills
* Logical Thinking

**Career progression data**

* Pathways :
  + Earn a bachelor degree in Computer Science/Computer programming/ Software programming/ Statistics or any related fields
  + Get an internship or do a small personal project to enhance the skills
* Get into a full-time job in a company, startup, or advertising agency for up to 3 years as entry level staff
* It depends on the skill and professionalism, but it’s possible to be a Manager or Project Manager after +3 years
* If you are a freelancer years of working and client’s are two important aspects to escalate the career path and salary

**Possible University Major**

* Computer Science
* Computer programming
* Software programming
* System Information
* Applied Math
* Statistics

**School subjects required**

* Computer
* Math