

# Sk.Amir Hamza

## Software Engineer

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### Skills

**Languages:** C/C++, PHP, JavaScript, Shell, Python .

**Technology:** Laravel, REST API, HTML/CSS, Javascript, Jquery, MySQL, SQL, Oracle, Git, Digitalocean, VPS, Docker

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### Experience

#### City University / Competitive Programming Trainer

- Worked with the student to build a strong basic CS background and improve their problem-solving skills.
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### Education

#### East West University/ BSC in Computer Science & Engineering

Spring 2017 - Fall 2021. Total earned credit - 140 out of 140.

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### Awards

#### Onsite Contest

Represented EWU in around **15+** National level programming contests.

- 1st Position - IEEE Intra Individual Contest 2018
  - 2nd Position - IEEE Intra Individual Contest 2019
  - 1st Position - Intra EWU Individual Contest 2019
  - **19th Position** - National Collegiate Programming Contest 2020
  - 2nd Position - Inter Private University Contest UITS 2019
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#### Online Contest

- more than **1500+** problems have been solved in different types of online judges like [Codeforces](#), [Lightoj](#), Uva.

## Project

### [CoderOJ.Com](#) / Coder Online Judge

Programming problems practice and contest platform. 5+ Intra university programming contests host this judge.

- Use submission judges use the job queue. 10 judging server parallel runs then if submission id%10 == 1 then it goes to the first judging server.
- Use redis cache for contest time arena load faster. Store full contest rank list in redis during the contest time.
- Generate temporary user accounts in contest participants from CSV and send SMS and Email their handle and password.
- Submission live judging system using Socket IO / Pusher
- **Tools:** Laravel, Mysql, C++, Bash, Redis, Socket, Php, Html, CSS, Jquery,
- **Server:** VPS, Linux
- **Github:** [github.com/coderoj-dev/Online-Judge](https://github.com/coderoj-dev/Online-Judge)
- **Live:** [CoderOJ.Com](https://CoderOJ.Com)

### Judger

Online C, C++, Java, Python code compile, run and provide verdict , total time use, and memory use.

- **Tools:** C++, PHP, Bash
- **OS:** Linux
- **Github:** [github.com/coderoj-dev/Judger](https://github.com/coderoj-dev/Judger)

### Virtual Classroom

all online classroom feature with support live class, real time collaborate whiteboard and class chat feature

- **Tools:** Laravel, Php, Socket, JavaScript, jQuery, Html, CSS, Bootstrap
- **OS:** Linux
- **Github:** [github.com/amirhamza05/Classroom](https://github.com/amirhamza05/Classroom)