

# 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

June, 2021 - August 2021.

- Worked with the student to build a strong basic CS background and improve their problem-solving skills and try to advise them to prepare for a national level contest before ICPC 2021.

#### Problem Setter and Judge

- IEEE EWU Intra university programming contest 2021
  - Intra EWU Kick of contest 2021
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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

#### Sports Programmer

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

- **2nd Position** - Inter Private University Contest UITS 2019
- **19th Position** - National Collegiate Programming Contest 2020
  
- **1st Position** - IEEE Intra Individual Programming Contest 2018
- **1st Position** - Intra EWU Individual Programming Contest 2019
- **2nd Position** - Intra House of Battle Individual Contest 2017
- **2nd Position** - IEEE Intra Individual Programming Contest 2019
  
- More than **1500+** problems have been solved in different types of online judges like [Codeforces](https://codeforces.com), [Lightoj](https://lightoj.com), Uva.

### Project ShowCase

- **Runners Up** : Intra University CSE Fest Project ShowCase 2018

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## 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
  - **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
- **Github:** [github.com/amirhamza05/Classroom](https://github.com/amirhamza05/Classroom)