**ELVIS MONDAL**

**Computer Science Student seeking work experience**

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**EDUCATION**

**Master of Science in Computer Science**

DePaul University CGPA-3.83/4.00 **expected June 2022**

**B. Tech in Computer Science and Engineering**

Christ University CGPA - 3.5/4.00 **May 2020**

**JOB EXPERIENCE July 2020 – Jan 2021**

* I have worked in a startup “CODE YOUNG pvt ltd.” It is an EdTech Company offering the online coding classes to the children of second standard till twelve standards.
* Operations team as a class Operator, handling the backend works and managements.
* Also managing the tutors and managing the records of the company.

**RESEARCH INTERESTS -** Internet Security,Blockchain

**COURSEWORK TAKEN-** Networks, Cryptography, Information Security, Wireless Networks

**INTERNSHIPS**

***Software Engineering Intern,* Republican Institute of Vocational Education, Belarus Apr 2019 - May 2019**

* Received training on Festo components (Pneumatics & Hydraulics) and ladder diagrams

**Internship Project**

**Automation of Production Line**

Designed a system to automate production line process by segregating products as metallic or non-metallic

* Actuated pneumatics and hydraulics using PLCs coded with ladder diagrams
* Used optical sensors to detect objects on the conveyer belt & used inductive sensors to segregate them as metallic or non-metallic, and sent them for packaging; accordingly, reduced human intervention & production time by 90%

***Title--Intern,* Eptisa India Apr 2018 - May 2018**

*- An engineering, consultancy, IT, economic & social development MNC*

* Received hands-on training on IoT Smart City & Arduino

**Smart City**

Analyzed current technological advancements implemented in around the settlement to ideate feasible & sustainable smart solutions for optimal water usage

* Designed smart ball tracking system to detect faults in piping systems; released track ball into pipes & sent signal to the controller upon obstacle detection; reduced water loss by ~75%

**SOFTWARE ENGINEERING PROJECTS**

[**JPaint App**](https://github.com/ElvisMondal/Paint.git) **Jan 2021- Mar 2021**

This Windows Application was built with a focus to make a painting application using the Design patterns. The objective was to use the Design Patterns and create a structured code base which could be used and modified by others later.

* 5 to 6 Design patterns were Implemented namely Command Pattern, Observer Pattern, Singleton Pattern, Proxy Pattern, Composite Pattern, NullObject Pattern.

[**Stokes App**](https://github.com/ElvisMondal/StokesApp.git) **Sep 2020-Nov 2020**

This Android Application was built to get the stokes information. In, this app we have the feature to search the stokes with stokes symbols. It gave the updated information upon swipe refresh.

* The features used where the Swipe Refresh technology in the android app, also the Search feature and use and interact with the JSON data.

[**Election Poll App**](https://github.com/ElvisMondal/ElectionPollApp.git) **Sep 2020-Nov 2020**

In this Android Mobile App, I used the Google Civics API to get the data of the political leaders of all the states at USA. With that I displayed the information about the leads holding different position in the state with respect to the location of the user or the searched and selected location by the user.

* It used the technologies like JSON, JSON Parsing, Google API calls, Internet checks if incase there was a no networks.
* It also used to hold and save the state the device incase the device is rotated the data are not lost.

**4Clover Jul 2019 – Feb 2020**

Designing an app for farmers to upload details about their crops & market them directly without middlemen

* Designed app using Android Studio & added blockchain for extra security; developed UI using Adobe XD; enabled access to farmer & customer profiles for marketing crops
* Implemented AI to auto-detect & categorize crops on the app; achieved 90%+ accuracy; launched app on Google Play Store

**OTHER COURSE PROJECTS**

**Modular House (team size - 3):** Designed a modular home using SOLID principles & enabled users to choose from 2, 3 & 4 BHK apartments with specified requirements, **Nov 2018 - Feb 2019**

**Password Verification:** Developed the tool using Web Services to cross-verify the password when a user logs in to a web page/service & enabled warning mail to be sent in case of breach with 94% efficiency, **Nov 2018**

**Gesture World:** Designed an Arduino-coded gesture-controlled home using IoT and gesture sensor to automate functioning of appliances by detecting human presence with 88% efficiency, **Sep 2018**

**Accident Prevention System (team size - 5):** Used proximity & pressure sensors for obstacle detection, and sent alerts to 5 emergency contacts using Wi-Fi module & Twilio packet with 98% efficiency, **Aug 2018 - Sep 2018**

**Car Braking Analysis:** Derived requirements for car braking at an obstacle by analyzing Fuzzy Logic at a scene simulated with 98% accuracy, **Aug 2018 - Sep 2018**

**Wireless Automated Home (team size - 2):** Developed using CISCO packet tracer & IoT to automate functioning of household appliances through IPv4 gateways; achieved 95% efficiency & 96% accuracy, **Nov 2017 - Dec 2017**

**3D Model Designing:** Created model using Java with OpenGL with 96% accuracy, **Aug 2017 - Sep 2017**

**Sentiment Analysis (team size - 3):** Implemented a sentiment analysis chatbot with Java to analyze conversations and determine the users’ mood (sad, happy, neutral) with 90%+ accuracy, **Aug 2017 - Sep 2017**

**Dancing Ferro:** Applied music impulse to move ferro-fluid; used Arduino & solenoid to create magnetic field to attract & move iron particles creating a dancing effect; achieved 94% efficiency, **Nov 2016 - Dec 2016**

**WORKSHOPS:** Attended a 1-day workshop on Artificial Intelligence organized by ASCII (Association of Students of Computer Science and Information Technology), Dept. of Computer Science, Christ University, Aug 2017

**CERTIFICATIONS**

* Introduction to Python, Christ University, Aug 2016
* Android-N, Udemy, Apr 2017
* Introduction to Cyber Security, CISCO Networking Academy, December 2019

**TECHNICAL SKILLS**

**Operating Systems:** Windows

**Programming Languages:** Java, C, Python, R, Lisp, SCALA

**Database and Client/Server Technologies:** MySQL, Arduino, WIZwiki, Oracle Sql

**Software Tools:** Android Studio, Spyder, MATLAB, UNDERSTAND, Designite Java, Infusion, Excel, Word, PowerPoint

**Web Applications:** HTML, CSS, JavaScript

**AWARDS AND EXTRA-CURRICULAR ACTIVITIES**

* Volunteer, Student Welfare Body, Christ University - Organized events like international conferences, college fest, etc., and managed guest hospitality for attending delegates, Apr 2017 - Apr 2019

**COMMUNITY SERVICE:** Volunteer, Center for Social Action, Christ University - Taught Math & English to 50 students, Apr 2016 - Apr 2017

**LANGUAGES**- English, Hindi, Bengali (Read/Write/Speak), German