Version 3.0 Resume web content.

About me:

I am an electronics and telecommunication engineering with a keen interest in IoT, Cloud Computing and Web Technologies. I am also an embedded system developer with good knowledge in various programming languages such as C/C++, and Python 3. I love structure and order and like to spend time fixing little details, as I stand for quality. I am also a white-hat hacker with and well-acquainted knowledge of various cybersecurity and cryptography protocols and methods. I am open-minded to new ideas and believes in "Two brains being better than one", that is why I like to collaborate in a team effort, it makes learning more fun and takes less time.

Experiences:

Education:

1. School of Electronics Engineering, KIIT Deemed to be University

Location: Bhubaneswar, Odisha

Jul 2018 – Apr 2022 CGPA: 8.00

Course: Bachelors in Technology in Electronics and telecommunication engineering.

Def: B.Tech is an undergraduate academic degree conferred after completion of a 4-year programme of studies at an accredited University. In India B.Tech and B.Eng. are identical and is 3 – 4 years of academic course depending on the previous level of education.

1. Midnapore Collegiate School

Location: Midnapore, West Bengal.

Jul 2016 – Apr 2018 CGPA: 6.78

Course: WBCSHE-Science (HSE)

Def: West Bengal Council of Higher Secondary Education is a state-controlled Council for Higher Secondary Education. I graduated HSE in science track which consists of the subjects Advanced Physics, Chemistry and Mathematics along with English and Bengali language and literature, with an optional elective, (Digital Electronics and Computer Science in my case).

1. Dooars International Public School

Location: Cooch Behar, West Bengal

Jul 2016 – Apr 2014.

Course: CBSE-Standard Secondary Education. CGPA = 7.4

Def: Central Board of Secondary Education is a council-controlled by the union government of India and is responsible for examining HSE and SE students, It follows the curriculum provided by NCERT which included subjects like science (physics, chemistry, biology), Mathematics, Social Sciences (Geography, History, Political Sciences and economics), English, Bengali, IT Fundamentals and Disaster management.

Career:

1. Digital Disruption Singapore PTE LTD

Location: Online – Remote (Work From Home).

Duration: Jan 2021 – Mar 2021

Role: Intern - Data Science and Machine Learning

Def: During the Internship program, I was exposed and trained on Python Programming, Statistics, Machine Learning Models and Pipelines Techniques, Deep Learning Models, Artificial Intelligence and Data Science Research.

1. Futoscope Foundation

Location: Midnapore, West Bengal

Duration: Dec 2018 – Dec 2020

Role: IT and Tech Support personnel

Def: Fixing and maintaining the devices used in the organization, maintained the employee Database and servers.

1. KIIT Robotics Society

Location: Bhubaneswar, Odisha

Duration: Sep 2019 – Aug 2020

Role: Instructor – IoT Classroom programme

Def: I instructed build creative new projects to the young aspiring Engineers to find the solutions to real-life problems using IOT technologies. At the same time, I introduced the world of Linux and Git and GitHub. I taught them the use of APIs and how to smartly implement them and how to use various cloud services.

1. KIIT Fest

Location: Bhubaneswar, Odisha

Duration: Dec 2019 – Dec 2019

Role: Technical member of organizing committee.

Def: Student Member of Organizing Committee for the school of electronic engineering, Technical department. I was primarily focused on the event line-clawers.

Abilities:

Skills:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Serial Key | Skill | Rank | Serial Key | Skill | Rank |
| 1 | c | 5 | 12 | Operating systems | 5 |
| 2 | Embedded system | 5 | 13 | Computer Simulation | 5 |
| 3 | Internet of Things | 5 | 14 | Video Editing | 5 |
| 4 | Cryptography | 3 | 15 | SEO/SMO | 3 |
| 5 | Cybersecurity and Ethical Hacking | 4 | 16 | Robotics Process Automation | 5 |
| 6 | Computer Networking | 5 | 17 | Data Science Analyst | 3 |
| 7 | Cloud Computing | 4 | 18 | Machine Learning | 2 |
| 8 | Web Technologies | 4 | 19 | Version Control | 5 |
| 9 | Database Management | 3 | 20 | Web Development | 4 |
| 10 | Blockchain | 3 | 21 | VLSI Design | 4 |
| 11 | IT & Tech Support | 5 | 22 | Digital Signal Processing | 4 |

Tools:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Serial Key | Tool | Rank | Serial Key | Tool | Rank |
| 1 | C/C++ (GCC/G++) | 5 | 19 | Ubuntu(18.04-21.04) | 4 |
| 2 | Python 3 | 4 | 20 | CentOS | 3 |
| 3 | Embedded C | 4 | 21 | Real-Time OS | 3 |
| 4 | Arduino IDE | 5 | 22 | Robotics OS | 2 |
| 5 | VS Code IDE | 5 | 23 | MATLAB | 5 |
| 6 | Thing Speak | 5 | 24 | Proteus Pro 8 | 3 |
| 7 | ATT M2X | 4 | 25 | EasyEDA | 4 |
| 8 | Crypt tool2 | 3 | 26 | Power Director 18 | 5 |
| 9 | Kali Linux | 4 | 27 | Inspect let | 4 |
| 10 | Wireshark | 5 | 28 | Google Analytics | 4 |
| 11 | Cisco Packet Tracer | 5 | 29 | UiPath | 4 |
| 12 | Amazon Web Service | 4 | 30 | Notepad ++ | 5 |
| 13 | GoogleCloudPlatform | 4 | 31 | Git/GitHub | 5 |
| 14 | SQL | 3 | 32 | HTML | 5 |
| 15 | Redis | 2 | 33 | CSS | 4 |
| 16 | BlockChair | 2 | 34 | JavaScript | 3 |
| 17 | MS Office | 5 | 35 | System Verilog | 4 |
| 18 | MS Windows OS(XP-10) | 5 | 36 | Processing3 IDE java | 4 |

Languages

|  |  |  |  |
| --- | --- | --- | --- |
| Bengali - IN | Native | Hindi | Professional |
| English - UK | Professional | Japanese | Beginner |

Projects:

1. Pong Game Clone using Processing IDE

Group Number: 1

Time: 2017

Tags: Java, Game Dev, Processing

Def: 2D Game clone of the classic arcade pong game for two players code and bin-exe are available here

1. Poodle Jump Game Clone using Processing IDE

Group Number: 1

Time: 2017

Tags: Java, Game Dev, Processing

Def: 2D Game clone of the classic arcade pong game for two players code and bin-exe are available here

1. Ball on a plate balancing system:

Group number: 1

Time: 2017

Tags: PID, Robotics, Arduino.

Def: My first ever Arduino project back in High-school days using a ball on a resistive-touchscreen to balance it on the plate using the raw position of the ball collected from the touchscreen and using a PID feedback loop Code is openly available.

1. Gesture controlled Land drone using accelerometer

Group Number:2

Time 2018-2019

Tags: Robotics, Control System, Arduino.

Def: A controller powered by an accelerometer and gyroscope which sense the change in the orientation of the controller and sends a signal to the rover wirelessly.

1. Home Automation Using IoT and integrated with a Voice assistant:

Group Number: 1

Time 2019-2020

Tags: IoT, NodeMCU, MQTT

Def: Internet-connected device which switches on or off the electrical appliance in a room. It used the Adafruit MQTT dashboard for controlling the device and integrates with Google Assistance or Amazon Alexa using IFTTT.

1. Peril avoidance system:

Group Number: 4

Time 2019-2020

Tags: Automotive safety, IoT,

Def: The project is all about solving the problems faced by the driver while driving and thus providing them with advanced driving assistance. The solution provided by our designed project will be beneficial in saving the lives of people around the globe. Thus, automation is the key to solve day to day issues and reducing the complexities. The paper will be providing the solution to the major problems faced by the driver on road and thus, preventing accidents. The project provides smart solutions regarding the entire design of the automated system and its role in saving lives and its broader aspects. TIDEP-0094 or IWR1642BOOST evaluation board embedded with an IWR1642 chip and XDS110 MCU is used to perform the required operation using mm-Wave Technology. The mm-Wave sensor (IWR1642) is used to detect any obstacle near it. It sends the data to the MCU XDS110 where it is processed to perform the different operations.

1. Portfolio Website
2. End-to-End Encrypted Chatting application for corporate to customer support (secure.ly)

Time 2020-2021

Group no: 1

Tags: Cryptography, Networks, chatting

Def: Privacy has become a major concern for the end-user of free services provided by technology giants like Facebook and Google, the scandals like Cambridge Analytica or data leaks by Google + has taught us about the dangerous impacts of data falling into the wrong hands. Here I designed an end-to-end encrypted chatting application to address this issue. The user of my chatting application named "secure.ly" can stay anonymous throughout the chatting session. I have been inspired by several chatting/social media applications such as 4chan, Reddit, Discord, Google Allo and WhatsApp to design Secure.ly. Secure.ly is extremely lightweight secure and portable and compatible with most of the popular operating systems. My solutions to the privacy concern of the users will help primarily the small to medium scale business internal and communication as the user data except the login credentials will be erased as soon as the session ends.

1. Music Visualizers

Time 2019-2021

Group no: 2

Tags: Fourier, DSP, Java

Def: Music Visualizer is a set of Processing3 codes which displays music responsive beautiful visuals. As of now I have made 6 music visualizer with Processing3 and ddf/minim java audio Library.