Arpan OJHA

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Education

Indian Institute of Technology • Guwahati,Assam   May 2014 – June 2018
Bachelor of Technology • *Engineering Physics & Electronics & Communication Engineering Minor* • GPA: 7.1
and 8.2 respectively

Work Experience

Software Engineer – CISCO   Sept 2018 – Present
STBU division

- Design and Development of Ironport proxy device Web Security Appliance.
- Analyze network Security by designing attacks and threat modelling .
- Managing Cisco Secure Development Lifecycle
- Delivered over 20 technical talks on topics such as WCCPv2, network proxy,CS router, ASA Routers , Attack theory and mechanics like DOS, Man in the middle, Injection(s) .
- Mentored over ten fresher(s) and interns at the company within a span of nine months .

Project Engineer – WIPRO   Jul 2018 – Present
Technology Business unit

- Assigned technical role at CISCO's Web Security Appliance product rated second best in enterprise proxy management systems in the world .
- Volenteered at Wipro Cares to design and paint an interactive classroom for underprivileged Schools.
- Other various tasks as project needs

Engineering Intern : Radar Design Analyst – Hindustan Aeronautics Limited   May 2017 – Jul 2017
Aircraft division

- Simulation and analysis: AESA radar ,III generation fighter aircraft installed for Indian air force.

Engineering Intern : Software Development and Analyst – ISRO   May 2016 – Jul 2016
Sensor and focal Plane division

- Designed an ANPR algorithm for Indian license plates for satellite cams .
- Design based on application of google Tesseract trained using CNN to recognize license plates . Developed the entire working product from end to end
- Worked on reduction of payload systems by integration to SoC devices

Projects

Bachelor Technical Project   Jul 2017 – Apr 2018
Dr. Tapan Mishra, Associate Professor , Dept. of Physics IIT Guwahati

- Expansion dynamics of ultra-cold atoms in optical lattice using computational physics for fasterprocessor advantage under supervision of Dr. Tapan Mishra.
- Project presented at the final year .

Aircraft azimuth detection using swerling model on random gaussian noise   May 2017 – Jul 2017
Link

- Swerling model can be used to model aircraft parts that determine the shape ,design and angle of the aircraft pre emptively ,from the radar patterns.

Automatic Number plate recognition using Machine Learning   May 2016 – Jul 2016
ISRO

- Trained classifier for Indian License plates using Convolution Neural Networks on Google's Tesseract OCR on SoC using OpenMP .

Mobile phone controlled Robot   Aug 2016 – Nov 2016
Department of Physics

- Developed Android application for control of robotic car over bluetooth .

SLAER Link to project   Feb 2016 – Mar 2016
Robotics Club of IIT Guwahati

- Implemented dijkstras algorithm on a line follower robot for efficient path mapping .

Technical Skills

- Programming languages: C, C++, Python, Java, JavaScript,R , mySQL
- Industry Certification : Cisco Certified Network Associate Routing & Switching
- Miscellaneous : Android app development , COMSOL Mutiphysics 5.0*, Advanced Matlab, Arduino, OpenCM, ROS
- Operating system : Windows, MacOS, Linux , Unix(FreeBSD) , RaspberryPi(embedded system)

Key courses

- Physics: Computational Physics, Statistical Mechanics, Microprocessor Architecture, Measurement Techniques
- Electrical and Communication: Communication systems, Digital Signal Processing (Image and Speech)

Extra Curricular Activities

- Director of Media and Public Relations , Robotics Club IIT Guwahati.
- Competition : Robothon and Robofest: Awarded I place in national level robotics competitions for SLAER
- Moderator ,Guest / Speaker Relations , Tedx IIT Guwahati (certified).
- Teaching and Lecturing:
- Talk on network security fundamentals and protocols delivered to colleagues(senior and peer).
- Lectured arduino workshop attended by 300 students from IIT Guwahati.
- Hobby : Trekking

References

- Prof. Tapan Mishra, Assistant Professor, IIT Guwahati. Email : mishratapan@iitg.ac.in
- Prof. Ashwini Kumar Sharma , Associate Professor, IIT Guwahati. Email : aksharma@iitg.ac.in
- Lakshmana Garlapati, Senior Project Engineer, Wipro Email : lgarlapa@cisco.com