Rajdeep Bandopadhyay

FIRMWARE ENGINEER

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AVAILABILITY

Available for co-op on alternating semesters from Summer 2020, references available upon request.

Summary

Aspiring AI / ML Engineer and an Incoming Co-Op Firmware Engineer at Infinera located in the heart of Silicon Valley.

<u>Looking for vertical career</u> <u>opportunities starting Summer</u> 2020 and beyond.

With a distinction diploma in Fine-arts and painting, I bring creative solutions and new perspective to any problem.

SKILLS:

- · Languages: C++, Java, Python, MATLAB, Visual Basic Script, SQL, HTML, Rust
- · Tools: TensorFlow (ANN, CNN, RNN, LSTM), Scikit-learn, Git, GitHub, Jupyter Notebook
- Industry Knowledge: Cryptography, Penetration Testing, Machine Learning, Deep Learning
 [Natural Language Processing, Computer Vision]
- Operating Systems: Mac OS X, Raspbian OS, Windows, Linux, Unix
- Soft Skills: Communication, Pro-actively manage multiple projects at once, Self-starter, Team Oriented, Critical Thinking, Problem Solving, Self-motivation
- Other Skills: Fine arts and Painting, Photoshop, Keen eye for aesthetics

EMPLOYMENT HISTORY

Infinera

Firmware Engineer Co-Op

Sunnyvale, CA Aug - Dec 2019

- Developing a Network Management Application using netopeer2/NETCONF protocols and YANG Data Modeling for Efficiency tests of certain Config files.
- Developing tools for the Firmware team, and supporting ASIC Engineering team to develop required tools for analytics and working with Embedded Systems.
- University of Cincinnati Research Assistant

Cincinnati, OH, USA Oct 2018 - Aug 2019

- Implemented RSBAC, a subset of RBAC Model, in order to map permissions for users within the framework. Investigating and analyzing multiple threat scenarios, cyber and physical, on Things Gateway to develop a more secure, reliable, and open-source "Things Framework" using IoT devices under a single "gateway".
- Analyzed a more secure and reliable emergency-response system to be integrated with the Mozilla-IoT gateway. Defined architecture for the development of the auxiliary android application called "ThingZone".
 - Set up the permission controls
 - Worked on the backend
 - Mitigated 5 high-risk cyberthreat scenarios
 - Integrated Nagios Network Analyzer with Mozilla Gateway

This research project is funded by Mozilla and NSF (National Science Foundation)-USA

• National Metallurgical Laboratory

Summer Intern, and Practical Learner Participant

Jamshedpur, IN Jun - Aug 2016

- Worked closely with the head technical officer, Mr. Chattoraj. Gained knowledge about the working process and procedure of benefaction of certain metals from its ore.
- Showcased the potential of a **Multi-Gravity Separator (MSG)**, in the gravity filtration process of an Iron ore sample.

EDUCATION

• University of Cincinnati, CEAS

Bachelor of Science in Computer Science + M.S. (ACCEND)

Aug 2018 - May 2023

• St. Mary's English High School, Engineering Science Computer Science and Information Systems

Mar 2016 - Feb 2018

EXTRA-CURRICULAR AND VOLUNTEER ACTIVITIES ACM-W: Support female classmates to empower and help all students succeed in Computer Science. Attend Bi-weekly meetings which includes technical workshops.

Greater Hope: Mathematics Tutor for 8th and 9th grade students struggling with their grades in middle and high school.

Artist: Canvas paintings, Fine-arts and scenery style Acrylic Paintings as a pastime hobby.

Animal Rights Activist: Plan-India volunteer and animal rescuer.

Mar 2019 - Present

Feb 2019 - Present

Jan 2005 - Present

May 2015 - Jul 2015

LANGUAGES

English, Bengali, Hindi, Sanskrit, Punjabi

AWARDS

- Global Scholarship | University of Cincinnati
- Distinction Diploma Certificate | Bangla-Parisad Institute of Fine Art and Painting
- Geetanjali Associations | Fine Arts and Paintings | Ranked in Top 5 in the Jharkhand, IND
- Thomas Paul's Science Quiz | State Recognized
- Silver Medal | National Merit Search Examination | Ranked in the 95th percentile nationally