

# Anil Yadav

**Current Address: 2500 West North Avenue●Baltimore, MD 21216**

**Permanent Address: Murli-15●Birgunj, Nepal 00977**

**(443)-648-6036 ●AYadav01@student.coppin.edu**

## EDUCATION

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<b>Coppin State University</b> , Expected May 2019 Bachelor of Science degree in Computer Science (Honors)	Baltimore, MD <b>Cum. G.P.A: 3.98/4.0</b>
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<b>National Infotech Higher Secondary School</b> , May 2013 High School Diploma (Computer Science Emphasis)	Birgunj, Nepal <b>GPA: 4.0/4.0</b>
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## EXPERIENCE

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Full-Stack Web Developer <b>Office of Information Systems, Coppin State Univesity</b> Coordinator: Timothy Casey, Manager of Web and Collaboration Services <ul style="list-style-type: none"><li>Worked on improving the 'look and feel' of Microsoft SharePoint Service for Coppin State University. Deployed <i>MyJadu</i> API to access directories information and created a widget that uses the API to sort and display information on Coppin's website.</li></ul>	Summer 2018 Baltimore, MD
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Summer Undergraduate Research Program in Imaging Informatics (Machine Learning) <b>Department of Radiological Sciences, University of California, LA</b> <i>Principal Investigator: William Hsu, PhD</i> <ul style="list-style-type: none"><li>Built a Deep Learning model to detect cancerous lung nodules in 3D computed tomography scan of the lungs. Implemented a Convolutional Neural Network (CNN) to construct the model framework. Worked on image segmentation algorithms for preprocessing large volumes of CT data.</li></ul>	Summer 2017 LA, California
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Undergraduate Research Experience <b>NASA Swarmathon, Coppin State University</b> <ul style="list-style-type: none"><li>Participated in the 2017 NASA Swarmathon virtual competition. Looked at various search algorithms and ROS libraries. Formulated different implementation strategies for the rovers to achieve the competition goal.</li></ul>	Spring 2017 Baltimore, MD
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Lab Technician <b>Client Computing Services (CCS), Coppin State University</b> <ul style="list-style-type: none"><li>Acquired skills in deploying and maintaining information technology systems and related services using professional concepts. Experience in working at the IT help desk to provide assistant to students facing any technical difficulties.</li></ul>	Spring 2016 – Present Baltimore, MD
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Research Intern <b>Center for Nanotechnology, Coppin State University</b> <ul style="list-style-type: none"><li>Conducted different simulations using PC1D to increase the efficiency of multi-junction solar cells. Worked on design and optimization of <b>Dye Sensitized Solar Cells (DSSCs)</b>.</li></ul>	Fall 2015 Baltimore, MD
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## Hackathons Involvement

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| Data Scientist (Machine Learning)  | October 7-8, 2017    |
| <b>HackUMBC, University of Maryland Baltimore County</b>   | Baltimore County, MD |
| <ul style="list-style-type: none"><li>Built a Kernel Support Vector Machine (SVM) model (supervised) for breast cancer prediction. Used Principal Component Analysis (technique for dimensionality reduction) to find variance in the training set. Dataset accessed from UCI Machine Learning Repository.</li></ul> |                      |
| Data Scientist (Machine Learning)  | September 30, 2017   |
| <b>Society of Advancement of Computer Science, Morgan State University</b>   | Baltimore, MD        |
| <ul style="list-style-type: none"><li>Constructed a Multi-Layer Perceptron Neural Network to detect malignant tumors in patients. The model was trained and tested on the University of Wisconsin's dataset.</li></ul>   |                      |
| Lead Developer   | Fall 2016            |
| <b>KP Social Innovation Challenge, Coppin State University</b>   | Baltimore, MD        |
| <ul style="list-style-type: none"><li>Built a Java application prototype that would keep track of medical history and symptoms of a patient (Hackathon sponsored by Kaiser Permanente).</li></ul>  |                      |

## SELECTED POSTER PRESENTATION

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- Summer Undergraduate Research Program, UCLA Department of Radiological Sciences  
David Geffen School of Medicine, MII RISE & UC-HBCU  
University of California, Los Angeles, CA, August 18, 2017
- Detecting Pulmonary Nodules in 3D Computed Tomography Scans using Deep Learning.**
- Annual Biomedical Research Conference for Minority Students  
Phoenix Convention Center, Phoenix, Arizona, November 3, 2017
- Detecting Pulmonary Nodules in 3D Computed Tomography Scans using Deep Learning.**

## ACHIEVEMENTS/AWARDS & LEADERSHIP ACTIVITIES:

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- Golden-Eagle Four Year **Full Ride Honors Scholarship** (2015-2019).
- Dean's List** distinguished scholar (Every Semester).
- Recipient of the prestigious "**Certificate of Excellence for Excellence in Research as an Honors Program Scholar**" (2017).
- Recipient of the "**Most Outstanding Mentee**" award by the **Our House Mentoring Community**.

## SKILLS:

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### Laboratory skills and experience:

- Solution chemistry (molarities, calculations, and pH measurements).
- Light and fluorescent microscopy.

### Computer/Technical:

- Operating Systems: Microsoft Windows, Linux (Ubuntu), Unix, Mac OS.
- Application Tools: MS office (Word, PowerPoint, Excel), Adobe Photoshop and XD, Dreamweaver.
- Programming Languages: Java, Python, Django, HTML, CSS, PHP.
- Machine/Deep Learning & Data Mining: Regression models, Classification Algorithms, Data Clustering, Convolution Neural Network (CNN) etc.

**Languages:** Fluent in English, Hindi, Nepali, and Bhojpuri.