YASH LAMBA

Software Developer

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EXPERIENCE

Software Development Engineer (Intern)

HackerRank (Interviewstreet), Remote

JUNE 2021 - PRESENT

- Working with Developer Experience team on HackerRank for Work platform.
- Involved in building a better plagiarism detection model and data analysis.
- Developing the backend architecture for deployment of the new model to production.
- Tech Stack: Ruby on Rails, AWS, Python, Docker and Javascript.

Mentor - Google Summer of Code'20

Python Software Foundation, Remote

APRIL 2020 - SEPTEMBER 2020

- Mentored student developers for Intel's DFFML project.
- Projects involved adding NLP and Computer Vision support to DFFML.
- Actively involved in brainstorming, planning, and code reviewing.

Student Developer - Google Summer of Code'19

Python Software Foundation, Remote

MAY 2019 - AUGUST 2019

- Contributed to Intel's DFFML (Dataflow Facilitator for Machine Learning) project.
- Added machine learning models from scratch.
- Wrapped models from scikit learn and implemented dynamic config definition.

Research and Development Intern

Addmath Research Centre Pvt. Ltd., Delhi, India

DECEMBER 2018 - FEBRUARY 2019

- Assisted in teaching school children mathematics in an interactive way.
- Based on teaching experience, built tools and software to assist teaching.

EDUCATION

Cluster Innovation Centre, University of Delhi

Bachelor's of Technology in Information Technology and Mathematical Innovations (Minor: Systems Biology)

2018 - 2022 (Expected) Score: 80.8%

Prabhu Dayal Public School

High School - PCM with Computer Science

GRADUATED MAY 2018 Class X: 10.0 CGPA Class XII: 89.8%

SKILLS

- **Programming Languages:** Python, Java, Ruby, C++, Javascript, Dart, SQL.
- **Frameworks and Tools:** Flask, Firebase, Heroku, Docker, AWS, Kubernetes, MongoDB, Ruby on Rails, Tensorflow, Flutter, Git, GitHub actions, CI/CD.
- **Interests:** DevOps, Software Design, Machine Learning, Computer Vision, Cross Platform Development, Education and Teaching.

ACHIEVEMENTS

- 1st runner up, Smart India Hackathon 2019; Worked on a problem statement regarding GDPR rules in travel sites by Amadeus Software Labs.
- Received scholarship from Udacity-KPIT for completing term-1 of Self Driving Car Nanodegree.
- Selected as Google Code In'19 mentor for Tensorflow.
- **GirlScript Summer of Code:** Personal project Simulate selected for open source program GSSoC. Volunteered as Project Admin'20 and Mentor'21.

PROJECTS

Simulate (Flutter and Dart)

yashlamba.com/simulate github.com/cod-ed/simulate

Collection of simulations and visualizations in a cross platform app based on Flutter. Available to use as a web app. Supported on iOS, Android and Web.

Road Fighter AI (Python, Artificial Intelligence, Neuroevolution, Deep Learning)

yashlamba.com/RoadFighterAI github.com/yashlamba/RoadFighterAI

Remade popular NES game Road Fighter using pygame. Created AI agents using multiple reinforcement learning techniques like Deep Q learning and NEAT.

Handwrite (Python, Typography, Image Processing)

yashlamba.com/handwrite github.com/cod-ed/handwrite

Handwrite generates a custom font based on your handwriting sample which can easily be used in text editors and word processors.

Miscellaneous (Course and Mini projects)

Varied stacks

- Python GUI Development: Developed few mini simulations and games using Python tkinter.
- BoxIt: Multiplayer dot connecting game made using Flutter and Firebase.
- COVID-19 Time Series Analysis with Deep Learning: Implemented multiple time series predicting deep learning architectures for COVID-19 analysis.
- **Research Publication:** Garg, S., Anand, A., Lamba, Y. et al. Molecular docking analysis of selected phytochemicals against SARS-CoV-2 Mpro receptor. Vegetos 33, 766–781 (2020).
- Maintainer DFFML: Authored the dffml scikit plugin under GSoC'19 along with other contributions. Contributing to code reviews, devops and design.