Akash Agrawal

https://github.com/Akash01010

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EDUCATION

IIT MANDI
B-Tech in Computer Science
Expected June 2019 | Mandi, Himachal
Pradesh, India
Cum. GPA: 8.4 (till 6th Sem)

Minor in Management
Expected June 2019 | Mandi, Himachal
Pradesh, India

KVM SR. SEC. SCHOOL
Sr. Secondary
Sikar, Rajasthan, India
Percentage: 84.40%

VPS SR. SEC. SCHOOL
Secondary
Sikar, Rajasthan, India
Percentage: 83.83%

LINKS

Github
LinkedIn

COURSEWORK

UNDERGRADUATE
Data Structure and Algorithms
Software Design Patterns
Deep learning and Applications
Artificial Intelligence
Data Mining
Pattern Recognition
Distributed Processes
Information and Database Systems
Computer Organization
Probability Statics and Random Processes

SKILLS

PROGRAMMING
C++ • C • Python • MySQL • Java
• Tensorflow • Keras • Spring

Familiar:
Arduino and Raspberry Microcontrollers
• AWS-Lambda • AWS-SQS • AWS-SNS
• HTML • CSS • PHP • JavaScript

EXPERIENCE

AMAZON | Software Engineering Intern
June 2018 – Aug 2018
I have created an easily testable, reusable Java API using Spring framework and JUnit 5. Created an AWS Lambda function using AWS CloudFormation template to call the API in response to the messages from a SNS.

PROJECTS IN VARIOUS DOMAINS

KEYBOARD MACRO UTILITY
Modified the Linux Kernel 4.16.8 to implement keyboard macros. User can assign a shortcut for a large text/command and use that shortcut instead of text/command when needed.

ENIGMA
Enigma is an online Quiz taking portal for universities. It is an online portal where teachers can conduct online tests, give assignments to students, etc. and students can access them (equipped with all necessary security features as per requirements). I have used HTML, CSS for its front end development, PHP for server-side programming, SQL for managing and querying database.

LIVE AND FAKE FINGERPRINT DETECTOR
The aim of the project was to distinguish between real and fake fingerprint images obtained from various sensors. I have made a deep learning model to classify between live and fake images.

RESEARCH

GROUP ACTIVITY ANALYZER
Feb 2018 – June 2018 | Mandi, Himachal Pradesh
Worked with **Jyoti Nigam** and **Prof Aditya Nigam** to develop a neural network which can analyze group interactions in egocentric social gathering videos.

CROSS SENSOR BIOMETRIC SAMPLE MATCHING
Aug 2018 – Present | Mandi, Himachal Pradesh
Working with **Prof Aditya Nigam** on developing a neural network which can be used to convert to convert an low quality fingerprint sensor image to high quality and subsequently matching them with the corresponding subject.

POSITIONS OF RESPONSIBILITY

Robotronics Club, IIT Mandi
Core Member for 2 years

Exodia, IIT Mandi
Management Team member for 2 years

Data Structure and Algorithms + Practicum
Teaching Asst