

## NIDHI CHAUDHARY

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**OBJECTIVE:** Actively Seeking internship opportunities for Summer 2020 in backend, web development and AI.

### **EDUCATION:**

- **University of Southern California, Los Angeles** - MS, Computer Science (May 2021) **GPA-3.65/4.00**  
Coursework – Analysis of Algorithms, Artificial Intelligence, Database Systems, Web Technologies
- **Indian Institute of Information Technology Design and Manufacturing Jabalpur**, Bachelor of Technology, Computer Science and Engineering (August 2017) **GPA- 9.1/10.0**

### **TECHNICAL SKILLS:**

- Programming Languages: JAVA, C
- Frameworks: Spring, Maven, Kafka, Spark, OpenCV, PyQt, AWS S3, Play Framework, Redis
- Scripting Languages: Python, PHP
- Databases: Cassandra, MySQL
- Web Technologies: HTML, CSS, JavaScript, Bootstrap, JSON
- Web scraping (Jsoup), REST APIs, Amazon Web Services, Docker

### **PROFESSIONAL EXPERIENCE:**

**Software Engineer, Vassar Labs IT Solutions Private Limited, Hyderabad, India** **June 2017-July 2019**

- Led a team of 4 to implement a backend framework for uploading data of multiple projects across different partitions and sending it to mobile application through REST APIs.
- Designed a failsafe system for real time reception and storage of time-series JSON and media data from mobile application to be relayed to third parties after performing analytics which was 3X faster than previous system.
- Deployed backend system and ran computations on Amazon EC2 instances.
- Co-developed a system in a team of 4 for extraction, transformation and uploading data from millions of students in state into a database and then compute proprietary heuristics across multiple hierarchies and dimensions through independent Microservices to be shown on a consolidated web dashboard.
- Developed a system for storage, mining and computation of data from about 70K schools in state across multiple levels by parallelizing the upload process and implementing a fast retrieval system to generate custom reports.

**Intern, Canon Inc., Kawasaki, Japan** **May 2016-November 2016**

- Developed a standalone application to assist image processing-based IP verification process, thus eliminating manual process of difference visualization amongst Golden model and IP generated images.

### **ACADEMIC PROJECTS:**

- **Chinese Checkers (Halma) playing agent– Artificial Intelligence** **September 2019-October 2019**  
Built an AI agent to play and win Chinese checkers in minimum number of moves by anticipating decision trees till depth 4 using minimax with alpha beta pruning using Java.
- **First Order Logic Inference System- Artificial Intelligence** **October 2019 -November 2019**  
Developed a first order logic inference system in Java for parsing and inferring first order logic semantics using resolution including parsing, processing and unification.
- **Spoken Language Classifier- Machine Learning** **December 2016-May 2017**  
Built a multi-class classifier with Neural Network in MATLAB.
- **Alumni Database System- Database Systems** **December 2015-May 2016**  
Created an alumni database website for IIITDM Jabalpur to login, register, view event details using HTML, CSS, PHP, JavaScript and MySQL.

### **ACHIEVEMENTS:**

- Participated in Jenesys 2.0 (cultural exchange programme) organized by JICE (government of Japan).
- Awarded certificate of excellence for 3 consecutive years for being in top 3 in CS department at IIITDM Jabalpur.