DARSH SHALIN SELARKA

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EDUCATION

Indiana University, Bloomington, IN   **Aug. 2020**
Bachelor of Science in Computer Science
Specialization: Data Science
Relevant Coursework: Data Structures, Object-Oriented Programming, Intro to Artificial Intelligence, Data Analysis & Mining, Analysis of Algorithms, Discrete Mathematics, Theory of Computing, Multivariable Calculus, Database Management Systems, Functional Programming

WORK EXPERIENCE

UROC, Indiana University, Bloomington, IN, United States *(Undergraduate Research Assistant)*   **Jan. 2020-Present**
- Build a dataset to understand quadruped animal actions from videos
- Annotate around 8000 images of quadruped animals using LabelMe into JSON format
- Incorporate Computer Vision algorithms to understand images using Python using PyTorch

Serve IT, Indiana University, Bloomington, IN, United States *(Teach IT Intern)*   **Jan. 2020-Present**
- Enhance technical communication and presentation skills by presenting fundamental concepts of Computer Science in front of a classroom of over 30 students
- Foster student learning through hands-on activities and improve overall engagement

Trimax IT Infrastructure & Services Limited, Mumbai, India *(Software Engineering Intern)*   **Feb. 2018-April. 2018**
- Implemented a training project to integrate Paytm API with web application to process online payment from the customer using UPI
- Completed training project utilizing Struts MVC and JSP to create a web application
- Acquired functional overview of Java and maintained documentation

ThinkJain, Mumbai, India *(Python/Django Developer Intern)*   **March. 2017-June. 2017**
- Utilized Python, Django to design server application and client interface (Job Portal)
- Parsed XML documents using Python scripts and loaded into the database
- Handled development of front-end user interface with help of HTML5, CSS, and JavaScript
- Collaborated with a team to manage and troubleshoot the project

RIIDL Organization, Mumbai, India *(IoT Architect Intern)*   **Nov. 2016-Jan. 2017**
- Developed an Internet of Things based Street light monitoring system for my university to save energy
- Implemented MVC Framework (CodeIgniter) along with LDR sensors
- Slashed electricity costs of the test area by nearly 20% from executing the project over a period of 2 months
- Acquired hands-on experience with REST APIs and PHP and formulated a strategy to drive adoption of AWS

PROJECTS

- **Ultimate Tic Tac Toe -** Built an AI agent for a 9x9 version of the popular Tic Tac Toe game using python by implementing Monte-Carlo Algorithm, Alpha-Beta Pruning (Minimax algorithm) as part of CSCI B351 class *(Oct-Dec. 2019)*
- **Survival RPG -** Built a 2D game in Unity which incorporated Object-Oriented methodologies in C# and path finding algorithm (Manhattan Distance) for the AI as part of CSCI C292 class *(Oct-Dec. 2019)*
- **House Price Detection -** Predicted House Price with an accuracy of 91% by using the TensorFlow machine learning framework and NumPy, Matplotlib *(Sept. 2019)*
- **Personal Portfolio** - Developed my Personal Portfolio using the ReactJS framework along with HTML5, CSS3 *(Nov. 2019-Present)*
- **Gabb -** A real-time messaging application which is implemented on the Android platform using the Firebase platform *(Oct. 2017)*

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

International Sports Club, Indiana University, Bloomington, IN, United States (*Vice President*)   **Aug. 2019-Present**
- Organized and managed Futsal World Cup 2019 and intramural competitions for the global community at Indiana University

IU Event Services, Indiana University, Bloomington, IN, United States *(Part-Time Usher)*   **Nov. 2018-Present**
- Assist in the management of events with more than 50,000 people on a weekly basis, acquiring problem-solving and organizational skills in real-time

Computer Society of India (CSI) Council, Mumbai, India (*Jt. Technical Head*)   **Aug. 2015-Aug. 2017**
- Convened workshops on Machine Learning, Android Development, and Cordova Development for a footfall of over 300 people for each workshop

TECHNICAL SKILLS

Programming Languages: Java, Python, C/ C++, C#, HTML, CSS, JavaScript, PHP, SQL, MySQL, R, VCS (git), Swift
Frameworks: Django, Struts, Bootstrap, Codeigniter, ReactJS, Tensorflow
Software Engineering: Data Structures, Algorithms, Object-Oriented Programming, REST APIs, Unit Testing (JUnit)
Miscellaneous: Microsoft Visual Studio Code, IntelliJ, Android Studio, Unity3d**,** XCode, RStudio, Sublime Text, Jupyter Notebook, Anaconda, Microsoft Access, PostgreSQL, MySQL Workbench, XAMPP, phpMyAdmin, MS Office, Adobe Photoshop (Astrophotography)