ISHAN S. PATEL

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Education

University of Illinois at Urbana-Champaign   May 2021
B.S. in Computer Science | Business Minor   GPA: 3.87/4.00
Dean's List: Fall 2017, Spring 2018, Spring 2019   James Scholar
Relevant Coursework: Data Structures, Algorithms, Systems Programming, Database Systems, Applied Machine Learning, Artificial Intelligence, Linear Algebra, Honors Computer Architecture

Industry Experience

Digital Forces Corporation | *Software Development Intern*   May 2019 - Aug 2019
- Engineered safety software to detect safe and unsafe asphalt loading conditions utilizing multilayered neural networks and obtaining 99% accuracy
- Planned and designed integration procedures for new safety software to be implemented with existing systems and be adaptable for future applications
- Ensured proper functionality of mobile web application by testing edge cases and proactively addressing areas of improvement while maintaining communication with app developers and designers

Project Highlights

weRSOcool   Feb - Apr 2019
- Developed a functional web application to connect registered student organizations with members using Django development framework
- Managed and stored data in SQLite database and aggregated data with advanced querying
- Created a recommendation engine using k-nearest neighbors machine learning algorithm

CU Recycle   Sep 2018
- Collaborated to build a classifier to identify an image of trash as recyclable or non-recyclable with a Convolutional Neural Network based on an item's shapes and colors obtaining 90% accuracy
- Launched mobile application, developed in Android Studio, on Android's Play Store and placed 2nd in PygHacks 2018 competition

ChessAI   Jun - Aug 2018
- Implemented an AI with a recursive minimax algorithm to select a robust next move based on potential outcomes of an opponent's next 3+ turns
- Built a classic chess game in Java following object-oriented programming principles
- Designed a Java GUI to incorporate game visuals with an interactive board made of a grid of JButtons

Leadership and Activities

National Organization of Business and Engineering | *Vice President Internal*   Apr 2019 - Present
- Organizing and executing events with corporate sponsors and guest speakers to recruit new members interested in product development, technology, consulting, and industry management
- Supervising 3 committees totaling 40+ members to facilitate internal retention efforts while providing resources for individual member development

Champaign-Urbana Business and Engineering (CUBE) Consulting | *Consultant*   Mar 2019 - Present
- Researching cost-effective tech strategy for a startup in the tourism industry in collaboration with a team of 5 business and engineering students
- Developing feasible application of modern AI tools for client's platform and recommendation systems

Engineering Freshmen Council | *Committee Chair*   Sep 2017 - May 2018
- Directed and led Awards Committee of 6 students, introducing a redesigned set of 5 awards for exemplary performance in student organizations
- Coordinated outreach events with a team of 12 to improve freshman participation and engagement

Skills

- ***Programming Languages***: C++, Python, C, Java, SQL, Racket, Verilog, MIPS Assembly
- ***Tools/Frameworks***: scikit-learn, TensorFlow, Keras, Django, git