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

Ongoing Coursework: Systems Programming, Numerical Methods, Probability & Statistics

Completed Coursework: Algorithms, Applied Machine Learning, Database Systems, Data Structures, Computer Architecture Honors, Discrete Mathematics Honors, Vector Calculus, Linear Algebra

Industry Experience

Software Developer Intern | Digital Forces Corporation   May 2019 - Present

- Engineered safety software to detect safe and unsafe asphalt loading conditions utilizing multilayered neural networks and obtaining 99% accuracy
- Planned and designed integration procedure for new safety software with existing systems
- Tested mobile web application to ensure proper functionality in corner cases and identified 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

Vice President Internal | National Organization of Business and Engineering   Apr 2019 - Present

- Organized events and workshops with corporate sponsors and guest speakers to recruit new members to maintain organization's growth
- Supervised 3 committees to upkeep member development and provide resources for committee chairs

Committee Chair | Engineering Freshmen Council   Sep 2017 - May 2018

- Directed and led Engineering Freshmen Council's Awards Committee of 6 students
- Introduced a redesigned set of 5 awards for exemplary performance in STEM student organizations
- Coordinated outreach events with a team of 12 to improve freshman participation and engagement within College of Engineering

Skills

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