ISHAN S. PATEL

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Education

University of Illinois at Urbana-Champaign	May 2021
Bachelor of Science in Computer Science	Minor in Statistics	GPA: 3.87/4.00
Dean's List: Spring 2019, Spring 2018, Fall 2017	James Scholar

Relevant Coursework: Data Structures, Algorithms, Systems Programming, Database Systems, Applied Machine Learning, Artificial Intelligence, Linear Algebra, Honors Computer Architecture

Industry Experience

***Amazon.com, Inc.** | Software Development Engineer Intern*   May - Aug 2020

- Integrated AWS products to create data auditing service while balancing multiple business constraints
- Supported the development of pipelines for real-time detection and verification of counterfeit products with modern data science practices to improve customer order experience

***Capital One Financial Corporation** | Software Engineering Intern*   Sep - Dec 2019

- Verified existing fraud detection features using Python's pytest library for exhaustive unit testing
- Contributed to the Anti-Money Laundering team with the development of features to expedite detection of suspicious activity on banking platforms

***Digital Forces Corporation** | Software Development Intern*   May - Aug 2019

- Engineered safety software to detect safe and unsafe asphalt loading conditions utilizing multilayered neural networks and obtaining 99% accuracy
- Planned and designed procedures for new safety software to be integrated with existing

Project Highlights

ChessAI   Jan - Feb 2020

- 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

weRSOcool   Feb - Apr 2019

- Developed a web application to connect registered student organizations with members using Django
- 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

Leadership and Activities

***National Organization of Business and Engineering** | President*   Dec 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** | Senior 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

Skills

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