

# ANDREW BLOCKI

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Ann Arbor, MI

<b>EDUCATION</b>	<b>UNIVERSITY OF MICHIGAN</b> <b>College of Engineering</b> Bachelor of Science in Computer Science, May 2021 <ul style="list-style-type: none"><li>Cumulative GPA 3.5/4.0</li><li>Completed Coursework: Data Structures and Algorithms, Database Management Systems, Introduction to Machine Learning, Introduction to Computer Organization</li><li>Fall 2020 Coursework: Conversational AI, Applied Parallel Programming with GPUs</li></ul> <b>COURSERA.ORG</b> <ul style="list-style-type: none"><li>Completed 8 courses in Web Development &amp; Design, including responsive front-end (HTML, CSS, JavaScript, jQuery, Bootstrap) and back-end (PHP, SQL) development basics</li></ul>	<b>Ann Arbor, MI</b>
<b>EXPERIENCE</b>	<b>TD AMERITRADE</b> <b>Software Engineer Intern</b> <ul style="list-style-type: none"><li>Developed new features and implemented bug-fixes on an automated investment platform built in React and Redux</li><li>Updated several Java-based Spring microservices to maintain application security and increase cache hit-rate to over 99.5%</li><li>Worked in a Scrum-based Agile development team, releasing new software every 2 weeks</li></ul>	<b>Ann Arbor, MI</b>
<b>May-Aug 2020</b>	<b>NLB CORPORATION</b> <b>Information Technology Intern</b> <ul style="list-style-type: none"><li>Refactored SQL queries to new database, improving query response time by up to 80%</li><li>Automated data processing for Quality Control team by implementing Visual Basic software within existing Excel spreadsheets as well as JavaScript within fillable PDF forms</li><li>Performed routine updates and repairs of PC, printer, and server hardware</li></ul>	<b>Wixom, MI</b>
<b>May-Aug 2019</b>	<b>PROJECTS</b> <b>NBA Neural Network Model [Python, ReactJS, MongoDB]</b> <ul style="list-style-type: none"><li>Built neural network deep learning model using the PyTorch machine learning library to project NBA final scores and make predictions against the point spread, achieving a long-term winning percentage of over 55%</li><li>Coded Python scripts to automatically collect data from recent games, calculate updated player ratings, and build input data for upcoming games</li><li>Created web app using MERN stack (MongoDB, Express, ReactJS, Node.js) to view game projections and predictions against the point spread -- <a href="http://NBANeural.net">NBANeural.net</a></li></ul> <b>Spotify Playlist Generation Web App [PHP, SQL, JavaScript, Bootstrap]</b> <ul style="list-style-type: none"><li>Engineered web app with Spotify Web API that allows Spotify users to generate new playlists of recommended songs based on select current playlists &amp; favorite songs</li><li>Programmed PHP scripts to collect and analyze data from playlists and artists on Spotify</li><li>Designed MySQL database to track user login and playlist creation</li></ul> <b>Euchre Simulator [C++]</b> <ul style="list-style-type: none"><li>Developed Euchre card game simulation that users play within Linux terminal</li><li>Used object-oriented programming and polymorphic classes to represent players that either follow strategy automatically or are controlled by user</li></ul>	
<b>SKILLS</b>	<b>Experienced in:</b> C++, Python (PyTorch, Pandas), JavaScript, ReactJS, HTML, CSS, PHP, SQL <b>Exposure to:</b> Java, Node.js, MongoDB, Redux, AWS, Bootstrap	