Andrew Nolan

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Education
Worcester Polytechnic Institute (WPI), Worcester MA,

    Master of Science, Computer Science, GPA: 4.0/4.0   **May 2021**
    Bachelor of Science, Computer Science, GPA: 3.97/4.0   **May 2021**

Programming Languages
    JavaScript, Java, Python, HTML, CSS, Kotlin, MATLAB, C#, SQL

Software/Tools
    Visual Studios, Firebase, React, Android Studio, Windows, git, node.js, Virtual Box, Oracle Database

Relevant Course Work
    Object-Oriented Design Concepts, Analysis of Algorithms, Operating Systems, Software Engineering, Database Systems I, Database Systems II, Webware, Theory of Computation, Artificial Intelligence, Machine Learning, Human Computer Interaction, Data Mining, Mobile and Ubiquitous Programming, Data Visualization, Predicting Human Decision Making

Related Experience
Student Teaching Assistant, WPI, Worcester MA   **October 2018-May 2021**
- Taught introductory coding courses in Python, SQL, Java, and Racket
- Taught advanced courses in Databases and Ethics of Computer Science

Engineering Development Group Intern, MathWorks, Natick MA   **May-August 2020**
- Improved the performance and reliability of saving plain text files in JavaScript versions of the MATLAB editor by implementing a piece table and chunked saving

Web Development Intern, Wakefly, Marlborough MA   **May-August 2019**
- Developed responsive web applications using CSHTML, SCSS, JavaScript and C#
- Managed content in several CMS including Sitecore, Umbraco, Kentico Cloud, and WordPress

IT Intern, NMS Labs, Willow Grove PA   **May-August 2018**
- Assisted in developing a web application using HTML, JavaScript, and CSS
- Programmed an inventory management application using C# and the MVC framework

Projects
Major Qualifying Project, WPI   **August 2020-April 2021**
- Continued research into BrainEx, a time series comparison tool
- Extended the tool with a React.js/Django frontend to include a cluster explorer for time series data

COVID Traveler – Mobile and Ubiquitous Computing Final Project, WPI   **August 2020-December 2020**
- Developed an Android app to provide users with accurate COVID data based on their location
- Allowed users to report misuse using a neural network trained to detect masked faces

Personal Website, my apartment,   **July 2020-Present**
- Developing a website in GitHub pages to share more info than my resume can provide

Artificial Intelligence Final Project, WPI   **May 2020**
- Developed an Ai in TypeScript to play the game Jotto, based on a greedy algorithm from research papers
- Performed an experiment comparing the Ai using a full dictionary and the Ai trained on "human" words

Webware Final Project, WPI   **October 2019**
- Developed several games and hosted them on a website using JavaScript with a team of 5 others
- Used node.js with express for the backend, the database was stored in Firebase

Software Engineering Final Project, WPI   **October 2018-December 2019**
- Created a web-based meeting scheduling application with a team of 4 people
- Hosted the site using AWS using Java code for the backend

Activities
- Chess Club, President   **August 2017 – May 2021**
- Upsilon Pi Epsilon, Events Coordinator   **January 2019 – May 2021**
- Math Hour, Member   **August 2018 – May 2021**
- Boy Scouts, Eagle Scout   **March 2010 – April 2017**