

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, Go, Java, Python, HTML, CSS, MATLAB, SQL

Software/Tools

Visual Studios, React, SpringBoot, AWS (S3, EC2, DynamoDB, RDS, CloudFormation), Windows, git, node.js, Virtual Box, Oracle Database, MariaDB

Related Experience

Fullstack Software Engineer, MathWorks Online Learning, Natick MA

March 2022-Present

- Develop the next generation of MathWorks Self-Paced Online Courses and related services using React, Go, Springboot, and AWS.
- Support localization initiatives for new courses and enhanced the infrastructure to support French

Associate Engineer, MathWorks Engineering Development Group, Natick MA

July 2021-March 2022

- Designed and built a feature to improve the sharing of learner progress in MathWorks Online Courses
- Wrote a section of the MATLAB Essentials EdX course covering the topics of file sharing MATLAB code
- Revamped an internal training course on MEX files taken by all new EDG members at MathWorks

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
- Published work in the ACM Proceedings of Human Computer Interaction - EICS June 2022 issue

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