

Marco Guida

Entry Level Software Developer

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Education

B.S. Computer Science - 3.58 GPA

Sept 2017 - Apr 2021

McGill University

Programming Coursework: Algorithms and Data Structures, Software Design, Operating Systems, Database Systems, Applied Machine Learning, Algorithm Design, Artificial Intelligence

Relevant Experience

Angular Front-End Developer Intern

May 2020 - Aug 2020

Agility PR Solutions - Media database, monitoring, and analytics solutions

- Utilized Angular to enhance Agility's targeting and monitoring web app through redesigning shared components, improving graphical analysis tools, and optimizing search.
- Implemented new search features, such as searching for Twitter retweets, by updating a Java RESTful web service and a MySQL database to support added features.
- Decreased deployment time of back-end codebase changes by 83% through creating Jenkins scripts that automated deployment.
- Participated in an agile work environment using Jira to deliver new features from prototype to production.
- Leveraged skills in Full-Stack Web development; Angular, TypeScript, and CSS for front-end; Java, MySQL, and Jenkins for back-end; Git; and debugged using Chrome DevTools.

React Native Front-End Developer Intern

Jul 2019 - Aug 2019

MG2 Media - Development of web and mobile apps for clients

- Utilized React Native to spearhead the development of an iOS and Android app which enables event hosts to seamlessly check-in guests with a user-friendly QR code scanner.
- Developed guest check-in by implementing camera functionality and cross-referencing scanned QR codes with a list of expected guests fetched from back-end.
- Improved state management by integrating Redux across the various components of the app.
- Incorporated a RESTful API for user authentication and data fetching with Redux-Saga to enable swift and asynchronous network requests.
- Leveraged skills in React Native, Node.js, JavaScript, Redux, and Git.

Full-Stack Mobile Developer

Feb 2019 - Jul 2019

Joyleaf (startup) - Medicinal product explorer mobile app

- Launched an iOS and Android app using Xamarin Forms that allows users to easily browse and review over 2,000 products.
- Achieved over 1,000 active users within first 3 months across the US and Canada.
- Led a team of 4 people to make sure project development is on schedule and on budget.
- Designed a RESTful back-end with Firebase that enables user authentication and medicinal data to be stored persistently in an online database.
- Leveraged skills in Full-Stack Mobile development; Xamarin Forms and C# for front-end; Firebase, Node.js, and JavaScript for back-end; and Git.

Projects

Personal Website - <https://marcoguida.com> (for more information and projects)

Image Classification Neural Network

- Developed a convolutional neural network (CNN) that identifies up to 5 digits in an image from a modified MNIST dataset.
- Achieved a 99.523% accuracy on over 14,000 images in a Kaggle competition.
- Leveraged skills in Machine Learning, PyTorch, and Python.

Unity Andor Game

- Developed a 2-4 player, turn-based video game using Unity, modelled after the Andor board game
- Implemented online multiplayer and real-time chat.
- Leveraged skills in Unity, and C#.

Pentago-Swap Game Playing AI

- Developed an AI agent that uses Monte Carlo Tree Search to statistically pick the best move to play during a game.
- Achieved a 71.3% win rate in a competition.
- Leveraged skills in Artificial Intelligence, and Java.

Skills

Proficient: Full-Stack Mobile development, React Native, Node.js, JavaScript, Java, C#, Git.

Familiar: PostgreSQL, AWS, MongoDB, Angular, Machine Learning, Python, C, Unix.