



PROFILE

WILLY LOPEZ

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[MyWebsite](#)

SOFTWARE ENGINEER

I am a Computer Science graduate from George Mason University. My goal is to become a full stack software engineer. I enjoy all sorts of coding, from web development, to AI/ML, to embedded programming. I am a technology enthusiast and enjoy writing about different use cases for open source technologies.

EDUCATION

B.S. COMPUTER SCIENCE
GEORGE MASON UNIVERSITY



Volgenau School of Engineering, 2018-2020

- **CS-321 (Software Engineering)** Developed a full stack application using ReactNative for the front end and NodeJS for the back end. deployed on Google cloud and used Firebase as a NoSQL database
- **SWE-432 (Web-App Development)** Developed a full stack application using ReactJS for the front end NodeJS for the back end and deployed it using AWS Amplify with a Firebase database
- **CS-310 (Data Structures and Algorithms) and CS 483 (Algorithm Design)** Implemented several projects involving fundamental algorithms and data structures in computer science. Created a Dijkstra's Algorithm visualizer using Java
- **CS-480 (Artificial Intelligence) and MATH-446(Numerical Analysis)** Implemented numerous project ranging from data regression analysis to AI-driven autonomous agents using Jupyter, Scikit-Learn, and MATLAB
- **WillBlogs** - Created a full stack blogging website Using the MERN web stack following a Routes and Controller architecture with ExpressJS
- **Covid-19 Data Model** - Created a forecast of deaths and infection transmissions using logistic regression in Jupyter notebooks
- **Dijkstra's visualizer** - Visualizer of the shortest path algorithm in Java Swing
- **MasonEats** - Developed a cross platform mobile application using ReactNative, google cloud, and firebase. Following a MVC architecture

PERSONAL PROJECTS

Front End

- Designed and prototype with Figma to develop HTML/CSS/JS front ends
- Utilized frameworks such as Angular, ReactJS, and ReactNative to build responsive client side web applications

Back End

- Developed server infrastructure in Node.js, Java-Servlets, Python, and C#
- Connecting back end frameworks to databases such as MongoDB, Firebase, and Oracle DB

Architecture and Workflow

- Developed several projects in small teams following SCRUM and Agile methodologies implementing CI/CD patterns
- Designed and implemented architectures such as Modal View Controller and Event Driven to various software applications

Network

- Developed web-sockets and RESTful API's
- Deploying secure requests and network protocols

SKILL STACK



EXPERIENCE

CoderKids INC. (January 2020 - current)

- Teach fundamental Python, Java, and Scratch to students utilizing Minecraft modding and other educational tools
- Teach embedded programming utilizing arduino in C/C++