

# Barry J. Varley

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## EDUCATION

### Marquette University Opus College of Engineering

Milwaukee, Wisconsin

#### Bachelor of Science in Computer Engineering

August 2019-May 2023

Cumulative GPA: 3.19/4.00

- Coursework: Data Structures, Software Methodologies, Electronic Devices & Applications, Computer Networks, Operating Systems, Computer Security, Intelligent Systems & AI, Embedded Systems, IoT & Machine Learning
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## EXPERIENCE

### AMA Group

New York City, New York

#### Engineering Intern – Technology & Electrical

June 2022-August 2022

- Supported senior engineers in designing server rooms and floor layouts in commercial buildings
- Held discussions with stakeholders to gather requirements, which were later used to inform design decisions
- Used AutoCAD and Revit to define data cable routes, map wireless access point (WAP) layouts, and create floor and ceiling plans
- Created plans for main and intermediate server rooms. Defined arrangement of servers, equipment, and air flow to ensure optimal and reliable performance
- Conducted on site evaluations post implementation, ensuring that all devices and cables were installed and operating effectively
- Helped run weekly status calls with mechanical engineers and architects to discuss status, obtain feedback, and identify blockers

### Senior Design Project

Milwaukee, Wisconsin

#### Software Engineer

September 2022-May 2023

- Worked with a group of engineering students on a yearlong project to create an evolution simulator in Unity Game Engine using C#
- The simulator was designed to help students, from middle school to college, to understand the concept of evolution
- Lead graphics design for this simulator, created organism sprites as well as the background graphics
- Helped work on neural networks and the user interface

### Software Methodology Website Creation

Milwaukee, Wisconsin

#### Scrum Team Member

February 2021-May 2021

- Worked with a select team to create a photography website, built using python, html, and CSS
- Using agile methodology, the website was successfully completed in four sprints, spanning 12 weeks
- Managed the project in a hybrid role, assuming the roles of Scrum Master, Product Owner, and Developer at different points throughout the sprint schedule

### Midlothian Country Club

Midlothian, Illinois

#### Honor Caddie and Trainer

April 2015-Present

- Developed business etiquette and professional skills by working for highly successful members and guests
  - Learned client-service and relationship management interacting with a broad range of diverse individuals
  - Directed and trained new caddies, teaching job responsibilities and rules of the game
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## HONORS & LEADERSHIP

### Chick Evans Scholar

August 2019-May 2023

- Earned esteemed four-year full tuition and housing scholarship awarded by the Evans Scholars Foundation
- Awarded for academic excellence, strong caddie record, financial need, and outstanding character
- Head of Marquette Evans Scholars House IT Committee

### Comcast Leaders and Achievers Scholar

August 2019-May 2020

- Awarded \$5,000 college scholarship out of a pool of thousands of candidates recognizing high school seniors for their outstanding community service, academic performance, and leadership skills
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## ADDITIONAL SKILLS & INFORMATION

**Skills:** C, Python, Java, Agile Methodology, Unit Testing, Machine Learning, Revit, AutoCAD, PSoC Creator, MatLab, Vivado(hardware modelling), NX 12 3D Modeling, Microsoft Office

**Philanthropy:** Evans Scholars Foundation, Camp Kesem

**Activities:** Brazilian Jiu Jitsu Club, Traditional Irish musician, Gaelic Football player, National Handball player