

# Matthew Mercado

240-725-2448 | [matthewmercado1999@gmail.com](mailto:matthewmercado1999@gmail.com) | [linkedin.com/in/matthew-mercado-velez](https://www.linkedin.com/in/matthew-mercado-velez) | [matthewmercado.dev](https://matthewmercado.dev)

## EDUCATION

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**Mount St. Mary's University**, Emmitsburg, MD **May 2023**

*Bachelor of Science in Computer Science*

- Received "The Mariam Award of Excellence in Computer Science" (highest GPA in Computer Science), graduated Summa Cum Laude, inducted to Upsilon Pi Epsilon Honor Society, President's List Fall 2021 – Fall 2022
- Cyber Defense Club, Code Hubs, ACM Club, Varsity eSports Team (Overwatch and Valorant)

**Frederick Community College**, Frederick, MD **May 2019**

*Associate of Science in STEM: Concentration in Engineering*

## TECHNICAL EXPERIENCE

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**Escape Director** **May 2023 – Present**

*Founder, Lead Software Engineer*

- Launched a full-stack escape room management web app, [escapedirector.com](https://escapedirector.com), using MERN (MongoDB, Express.js, React, Node.js) to reduce monthly software costs and enable data-driven decisions for businesses
- Designed an engaging front-end interface using React and Material-UI
- Crafted a Node.js backed and RESTful APIs with express for user authentication, managing user and content data within MongoDB and AWS S3
- Implemented secure payment processing using Stripe API, ensured secure authorization and route protection
- Introduced Socket.io for real-time communication with players
- Developed several algorithms to automate data analysis of performance and statistics

**Escape This Frederick**, Frederick, MD **July 2017 – Present**

*Software Engineer (2020), Manager (2017)*

- Redesigned [escapethisfrederick.com](https://escapethisfrederick.com), boosting conversion rate by 100% and decreasing bounce rate by 35%
- Implemented electronic puzzles using Arduino programming (C++) and PLCs, eliminating manual reset time
- Developed a full stack waiver web app using Next.js, React, Tailwind, Prisma, and PostgreSQL that integrates with Bookey and Mailchimp API and increased remarketing potential 8x

**Box**, Remote **May 2022 – August 2022**

*Software Engineer Intern, Preview Team*

- Improved user experience and upgraded components for analytic menus using React.js, Redux, CSS, and Sass
- Led a project to implement dynamic social media link unfurling using PHP
- Introduced automated QA tests and Gherkin Scripts using Cucumber and WebDriverIO to support BDD that reduce manual testing and ensure quality code

**Mount St. Mary's University**, Emmitsburg, MD **January 2022 – December 2022**

*Peer Mentor: Computer Science I and II*

- Mentored around 100 students CS students in Java and Python
- Taught critical problem-solving and debugging skills to students

## Portfolio Website

- Designed a portfolio website using Next.js, React, Typescript, and Tailwindcss to showcase my projects, resume, and background at [matthewmercado.dev](https://matthewmercado.dev)
- Developed a contact form using Vercel serverless functions and the SendGrid API

## SKILLS AND LANGUAGES

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**Exceptional:** JavaScript, TypeScript, Python, Java, React, MongoDB, Git, Tailwindcss, MUI, SEO, UX/UI, HTML/CSS, Microsoft Office (Word, PowerPoint, Excel), Windows OS, MacOS

**Proficient:** C++, C#, Ruby, SQL, AWS S3, Next.js, Postgres, Prisma, Redux, Vercel, Heroku, Selenium, Arduino, Linux, PHP