

Melanie Payne, B.A

Software Engineer

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Technical Skills: C#, JavaScript, Java, Python, SQL, MongoDB, HTML, CSS, Angular, Node.js, APIs, .NET Core, Unix/Linux, Testing

PROFESSIONAL DEVELOPMENT

Google Professional Certificate in Advanced Data Analytics (in progress) - Project Management, Data Ethics, and Reporting

PROJECTS

Coffee Shop Application | C# | WinForms

- Developed a functional C# coffee shop application simulating **10,000 transactions daily**, exhibiting advanced programming and software development proficiency.
- Improved operational efficiency to **40%** by integrating order processing and receipt generation functionality in the application.
- Integrated a real-time inventory tracking feature that **reduced inventory discrepancies by 25%**.

TaskMatrix | JavaScript | Angular | NodeJS | MongoDB

- Engineered a project management tracking web application leveraging JavaScript, Angular, Node.js, and MongoDB, resulting in a **50% improvement** in meeting deadlines and a **20% increase** in overall project efficiency for the team.
- Enhanced team collaboration by implementing user accounts, team creation, and task generation functions, optimizing workflow efficiency.
- Improved team coordination by introducing task assignments and progress-tracking, resulting in a **30% improvement** in delivery timelines.

EDUCATION

Software Engineering Diploma | GPA: 4.1/4.3 | Centennial College, Toronto, Ontario **2023**

Bachelor of Psychology (First Class Honours) | GPA: 3.9/4.3 | **Award:** Dean's List 2020 | The University of the West Indies, Barbados **2021**

RESEARCH EXPERIENCE

Undergraduate Thesis | Research Projects | The University of the West Indies, Cave Hill Campus, Barbados **2018 - 2021**

- Conducted a 10,000-word thesis** investigating violence in youth identifying a correlation between corporal punishment and aggression.
 - Data analysis found a **15% gender-based distinction** in participants without higher education experience. These findings led to a recommendation for an education campaign about corporal punishment targeted to parents in relevant communities.
- Designed a 6500-word predictive correlational study** investigating self-esteem, sleep, and academic performance among students.
 - Utilized multiple linear regression techniques to predict academic performance based on self-esteem and sleep duration.
 - Achieved statistical significance ($F(2,57) = 63.793, p < .000$) with an R^2 of .691.** These discoveries led to a recommendation to promote adequate sleep and counselling for university students.
- Authored a 5000-word quantitative research project** that explored the relationship between meditation and anxiety among outpatients.
 - The Pearson correlation showed a notable **negative relationship of -0.749 with a 0.01 significance level.**
 - Independent samples t-test on gender produced a **significance value of 0.709 that discounted gender as a factor.** The results led to a suggestion for the use of meditation as a treatment of anxiety for all genders.

WORK EXPERIENCE

- Financial Customer Service Agent at Toyota Financial Services, Toronto **2024**
- Receptionist / Esthetic Expert at The Ten Spot, Toronto **2022**
- Receptionist services at Student Esthetic Spa **2021**
- Volunteer at Animal Sanctuary **2020-2021**
- Sales Assistant / Key Holder in high-end boutique **2017-2019**