

Melanie Payne, B.A

Junior Software Engineer

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SKILLS

Technical Skills: C#, JavaScript, Java, Python, Oracle SQL, MySQL, PostgreSQL, MongoDB, HTML, CSS, Angular, Node.js, APIs, Debugging, Testing

PROFESSIONAL DEVELOPMENT

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

WORK EXPERIENCE

Software Engineer Intern | Synopsis Labs, Remote

2023 - Present

- Developed and prototyped mobile applications using Thunkable, resulting in a **30% reduction in development time** and contributing to the successful implementation of the PriceWize project.
- Executed backend development tasks using Xano, efficiently managing data and facilitating seamless integration with Thunkable applications, **resulting in a 25% improvement in overall application functionality**.
- Spearheaded project management efforts, creating comprehensive flow charts using Miro, **leading to a 20% increase in project efficiency** and successful collaboration with cross-functional teams.

Customer Service Representative | Various Companies

2017 - 2021

PROJECTS

Good Recommendations | JavaScript | Node.js | MongoDB | Google Books API

- Developed a web application using JavaScript, Node.js, MongoDB, and the Google Books API to create a personalized book recommendation service, **resulting in a 50% increase in user satisfaction**.
- Implemented an advanced recommendation algorithm based on user preferences, **leading to a 30% improvement in the accuracy of book suggestions**.
- Leveraged the Google Books API to enrich the recommendation database, ensuring access to a vast library of books, **contributing to a 25% expansion in the book catalog**.

Project Management Application | JavaScript | Angular | NodeJS | MongoDB

- Engineered a robust project management solution leveraging JavaScript, Angular, Node.js, and MongoDB; implemented real-time progress tracking, 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 for a simulated base of 500 users.
- Drove enhanced team coordination by introducing task assignments and progress-tracking features, resulting in a streamlined workflow and a **30% improvement** in project 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 end-to-end research investigating the escalating violence in youth that identified a strong correlation between parental corporal punishment and aggression in young adults.
 - Data analysis found a **15% gender-based distinction** in students 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 research study** investigating self-esteem, sleep, and academic performance among university 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.