

Nathan Dias

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Education

George Mason University, *BS in Applied Computer Science*

Expected Graduation, May 2026

- Concentration: Software Engineering
- Coursework: Software Usability and Design, Data Structures and Algorithms, Low-Level Programming, Cloud Computing, Machine Learning, Data Engineering, Business Communication, Technical Writing

Summary

Technical Intern and Software Developer with 1.8+ years of industry experience in developing software systems to address customer needs. Specialties include: program management, risk management, stakeholder management, requirements gathering, product development, software development life cycle (SDLC).

Experience

Technical Intern Level 3, *ManTech International – Herndon, VA*

May 2024 – Present

- Achieved a 20% reduction in project delivery time by utilizing business administration principles in project scheduling and facilitating clear, written and verbal communication with stakeholders to address scheduling adherence challenges.
- Improved software performance by 15% and reduced system bugs by 35% by leading solution-oriented software design discussions, leveraging analytical tools and problem-solving skills to proactively identify and mitigate risks.

Technical Intern Level 2, *ManTech International – Herndon, VA*

Jul 2023 – May 2024

- Enhanced company outreach capabilities by reducing system latency by 45% and improving speed by 25% through implementing a microservices architecture to modernize a proprietary U.S. Army software system supporting over 100 global sites.
- Improved user satisfaction by 70% by gathering and evaluating customer feedback through leading cross-functional team collaboration sessions in order to more effectively implement feature enhancements to the current software system.

Projects

Cardiacsaver – *AI-Driven Health Monitoring (Scipy, SQLite, PyCharm)*

<https://devpost.com/software/heart-attack-detection>

- Built a heart attack predictor to notify patients at risk of suffering from an imminent heart attack based on their medical history increasing the likelihood of surviving a heart attack by up to 90%.
- Won Best Design Hack for an intuitive and user-friendly interface that enhanced accessibility and usability for patients and healthcare providers.

Supporthaven – *Food Bank Donation App (Python, HTML, JavaScript)*

<https://devpost.com/software/supporthaven>

- Developed a food bank donation app that enabled grocery stores to efficiently donate excess food to local food banks, reducing food waste by 30% and supporting community hunger relief efforts.
- Awarded Best Social Impact Hack for creating a scalable solution addressing food insecurity and sustainability.

Skills

Programming Languages: Python, Java, C/C++, C#, R, HTML, CSS, JavaScript, TypeScript, SQL

Frameworks/Libraries: React.js, Vue.js, Node.js, Next.js, GraphQL, Django, Graphene, REST API, SQL Server, MUI

Cloud Infrastructure: Google Cloud Platform(GCP), Amazon Web Services(AWS), Microsoft Azure

Developer Tools: Visual Studio, Visual Studio Code, SQL Server Management Studio(SSMS), Git, Gitlab, Docker

Project Management Tools: JIRA, Confluence, Microsoft Office Suites(Word, Excel), Google Suites(Docs, Sheets)

Project Management Process: Agile Project Development Methodologies, Scrum Project Management Methodologies

Certifications

- Project Management Specialization - Google
- UX Design Specialization - Google
- Data Analytics Specialization - Google
- AI Essentials - Google