Norman A. Toro Vega

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Education

Boston University, B.S. in Computer Engineering, Concentration in Technology Innovation May 2021
Coursework: Algorithms & Data Structures, Linear Algebra, Discrete Math, Probability & Data Science, Business Strategy
Honors & Awards: Intel Excellence in CS Award, Hispanic Scholarship Fund Scholar, Twitter #FirstFlight19 Selectee

Skills

Software Development: C++ | Python | Java | MATLAB | Swift | iOS & Android Development | Web Development | Git
Product Management: Agile | Scrum | Design Sprints | JIRA | Trello | A/B Testing | Figma | Adobe XD | UI/UX Design
Languages: English (Native) | Spanish (Native) | Portuguese (Elementary)

Experience

Spark! Innovation Fellowship | Innovation Fellow & Founder of "My Science Guide" January 2020 - Present

- Founder of "My Science Guide", an online research mentorship platform for Latin American high school students
- Oversee product development, technical implementation, and UI/UX design as Scrum Master leading a team of 3
- Built the application frontend using React Native for the iOS and Android MVP

Puerto Rico Innovation & Technology Service | Research & Development Intern June 2018 - July 2018

- Developed innovative solutions for the Digital Transformation Initiative of Puerto Rico
- Researched successful Digital Reform strategies and developed case studies for redesigning PR.GOV
- Collaborated with citizens, stakeholders, and policy teams to envision new ways of designing online services

Intel International Science & Engineering Fair | Research Scientist
Programmable System for the Extraction of Hydroelectric Energy June 2016 - May 2017

- Designed a hydroelectric energy capture system that uses gravitational water streams to produce clean energy
- Implemented analytics using MATLAB to study its efficiency and created the prototype design using CAD

Simulating the Radioactive Decay Chain Utilizing MATLAB August 2015 - May 2016

- Designed a hydroelectric energy capture system that uses gravitational water streams to produce clean energy
- Implemented analytics using MATLAB to study its efficiency and created the prototype design using CAD
- Awarded the Intel Excellence in Computer Science Award

Projects

BlackBerry: Market Insights & Strategic Analysis | Strategic Consultant January 2020 - May 2020

- Developed a team-based project on Blackberry's market insights for BU's Strategy in Technology Firms course
- Envisioned 4 strategic recommendations to improve the company's outcome and future as a security provider

FirstAR Care Startup | Chief Technology Officer September 2019 - December 2019

- Led the development of a "mock" startup focused on redefining First Aid training using Augmented Reality
- Worked on the end-to-end startup development process including ideation, developing the business model, understanding the markets, financial plans, and leadership
- Selected as runner-up for best pitch during final presentations

Organizations

Society for Hispanic Professional Engineers | Public Relations Chair January 2020 - Present

- Manage social media branding for SHPE-BU, focusing on recruitment, engagement, and retention.

High Performance Computing Club | Co-President November 2018 - Present

- Host weekly interactive hands-on workshops on programming optimization techniques.
- Offered lecture on "High Performance Computing Fundamentals with Swift".