Matthew Joseph Bisicchia
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Education:

Rowan University, Glassboro, NJ
September 2018 - expected May 2022
***Senior,* GPA: 3.935/4.0**

- Bachelor of Science -
  Electrical and Computer Engineering
- Minor - **Computer Science**
- 2020 – 2021 President of Upsilon Pi Epsilon, Computer Science Honors Society, Rowan Chapter
- Honors Program

Experience with:

- Programming and Software Design
- Website/Application Development
- Test-Driven Development
- Communication/Teamwork/Agile/Scrum
- Git
- Linux
- Visual Basic
- Python
- JavaScript
- Amazon Web Services
- Node.js
- Express.js
- React.js
- AngularJS
- Spring Boot
- MongoDB
- Java
- Scikit-learn
- C++
- xUnit testing
- HTML5 and CSS
- Kali Linux (for Penetration Testing)
- Algorithm Development
- Object Oriented Design and Principles
- Unity Game Engine
- MATLAB
- Verilog HDL
- Bi-Literacy in the Italian Language

Completed Coursework:

- Honors Data Structures and Algorithms
- Honors Design and Analysis of Algorithms
- Honors O.O. Programming/Data Abstraction
- Principles of Biomedical Systems and Devices
- Machine Learning Research Clinic
- Advanced Cybersecurity (Graduate Level)
- Signals and Systems
- Digital Signal Processing
- Intro. to IOT (Graduate Level)
- Computer Architecture
- Electronics
- Intro. to Digital Systems
- Principles of Electrical Circuit Analysis
- Intro. to Embedded Systems
- Engineering Electromagnetics
- Foundations of Computer Science
- Intro. to Systems and Control

Objective

Motivated to serve for software and/or hardware purposes to combine programming skills/work ethic with team members in a collaborative environment. Eager to become involved in innovative startups, especially for biomedical purposes. Fascinated with biology.

Employment/Volunteerism

Software Engineer Co-op, Lockheed Martin   May '20 – Sept. '20; May '21 – Jan '22

Updated legacy code, supported development of new features, wrote tests, and participated in Scrum in an Agile-driven environment. Was part of a highly collaborative team.

Computer Science Tutor   Fall 2020, Spring 2021

Computer Science Learning Assistant, Rowan University, Glassboro, NJ   Fall 2019

Assisted a class of 16 students in Intro. to Object Oriented Programming with questions/issues as they worked on their labs. Was part of enrollment in a 1 credit course. *Discovered my love for both teaching and helping other programmers.*

Resident Assistant, Rowan University, Glassboro, NJ   2019-2020

Oversaw floor of 22 residents. Enforced policy. On duty approximately 4 times per month for the entire building of about 350 freshmen. On call during the night approximately 2-3 times a month. Resolved lockouts. Wrote incident reports and duty logs. Guided students to resources for any need. Performed health and safety inspections with another resident assistant after move in. *Further taught me to value others' needs first before mine.*

Maintenance, St. Joan of Arc School and Church, Marlton, NJ   Summer 2018

Supported church's mission by participating in the maintenance staff. Included setting up for events, landscaping, cleaning, and helping to fix issues within the buildings and grounds. *Further taught me the value of hard work and having initiative.*

Volunteer Service, Virtua Marlton Hospital, Marlton, NJ   2018

Volunteered in the surgical waiting room by assisting families of patients waiting for information. Maintained confidential paperwork regarding the status of patients. *Taught me the importance of being present for others in a time of stress, in a medical environment.*

Volunteer Service, St. Joan of Arc Church, Marlton, NJ   2014 - 2019

Programming Project Experience

Development of Personal Application/Website   February 2022 – Present

Developing personal website using Node.js and React.js and to be deployed using Amazon Web Services. This site will also store knowledge/original notes learned over the years, including the insight and skills learned while studying electronics in college. The purpose is for knowledge retention as well as for education. Interactive visual diagrams custom-built with JavaScript, HTML, and CSS will be included to aid the communication of these notes.

Research of Efficiency of Ensemble Approaches for ICU Mortality Prediction

As part of a junior year course, participated in a research clinic team consisting of undergraduate students led by a Ph.D. student and advised by an Electrical/Computer Engineering Professor. The goal of the research was to analyze the efficiency of hyperparameter-tuned Scikit-learn implementations of ensemble machine learning algorithms in predicting if a patient will survive within 24 hours of admission into the ICU.

Web Game   May 2020

Started developing a 2D game in JavaScript. Learned through self-study with online resources and through networking with/learning from talented individuals met at college. Made a quick open-source boiler plate code template, available at: https://github.com/MatthewBisicchia/TwoDVideoGameTemplate.git