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:

- Website/Application Development
- Test-Driven Development
- Communication/Teamwork/Agile/Scrum
- Git
- Linux
- Python
- C++
- JavaScript
- TypeScript
- Amazon Web Services
- Node.js
- Express.js
- React.js
- AngularJS
- HTML5 and CSS
- Object Oriented Design and Principles
- Java
- Spring Boot
- MongoDB
- SQL
- Scikit-learn
- xUnit testing
- Visual Basic
- Kali Linux (for Penetration Testing)
- Algorithm Development
- 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
- Eager to combine programming skills/work ethic with team members
- Enthusiastic about biomedical engineering; fascinated with biology

Employment/Volunteerism

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

- Updated legacy code, developed new features, wrote and performed tests
- Participated in Scrum following Agile framework; member of highly collaborative, DevOps driven team; led Product Demos of work on large teleconference calls

Computer Science Tutor Fall 2020, Spring 2021

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

- Assisted class of 16 students in Intro. to Object Oriented Programming
- *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. Performed health and safety inspections.
- Guided students to resources for any need.
- *Further taught me to value others' needs first before mine.*

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

- Setting up for events, landscaping, cleaning, and helping to fix facility issues
- *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 to be deployed using AWS
- Will store knowledge/original notes learned during college (ex, electronics theory)
- The purpose is for knowledge retention as well as for education
- Will include interactive visual diagrams custom-built with JavaScript, HTML, and CSS

Research of Efficiency of Ensemble Approaches for ICU Mortality Prediction

- As part of a junior year course, participated in undergraduate research team
- Analyzed the efficiency of hyperparameter-tuned Scikit-learn Machine Learning models in predicting if a patient will survive within 24 hours of ICU admission

Web Game May 2020

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