# 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**
- '20 – '21 President of Upsilon Pi Epsilon,
  CS Honors Society, Rowan Chapter
- Honors Program; Tau Beta Pi Engineering Society

## Experience with:

- Website/Application Development
- Node.js
- Express.js
- React.js
- JavaScript
- TypeScript
- RESTful API; Insomnia, Postman
- Amazon Web Services
- CI/CD Pipeline
- MySQL database
- Test-Driven Development (L1, Regression)
- Unit testing (work in xUnit)
- JIRA/Communication/Teamwork/Agile/Scrum
- Public Speaking, Product Demos
- Knowledge of functional programming paradigm
- Object oriented design and principles
- HTML5 and CSS
- Scikit-learn
- Python
- C#
- Java
- Spring Boot
- Angular
- Git; GitLab, GitHub, Bitbucket
- Linux, as well as Oracle VM Box
- C++
- MongoDB
- Visual Basic
- Kali Linux (for Penetration Testing)
- Algorithm Development, Data Structures
- Unity Game Engine
- MATLAB
- Verilog HDL
- Cadence Virtuoso
- 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
- Foundations of Computer Science
- Principles of Biomedical Systems and Devices
- Advanced Cybersecurity (Graduate Level)
- Digital Signal Processing, Signals and Systems
- Intro. to IOT (Graduate Level)
- Computer Architecture, Electronics, Intro. to Digital Systems, Electrical Circuit Analysis, Intro. to Embedded Systems, Engineering Electromagnetics, Intro. to Systems and Control

## Objective

- Motivated to apply work ethic to serve software and/or hardware purposes with team members in a collaborative environment
- Eager to become a part of a company family for the long term: driven to deliver, present/public speak on demos, and grow together in that family
- Enthusiastic about becoming involved in a startup-like company, 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, developed new features, wrote and performed tests
- Scrum, Agile framework; member of highly collaborative, DevOps driven team; carried out product demos to public speak/present before 40 other engineers/managers

**Computer Science Tutor                      Fall 2019, Fall 2020, Spring 2021**

- Included assisting a Fall 2019 class of 16 students in Intro. to O.O. 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 with another resident assistant approximately 4 times per month for the entire building of about 350 freshmen.
- On call during night 2-3 times a month. Resolved lockouts. Wrote incident reports and duty logs. Performed health and safety inspections. Provided resources to students.
- On team with strong family vibe: taught importance of working together.
- *Further taught me to value others' needs first before mine.*

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

**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.*

## Programming Project Experience

**Development of Personal Application/Website            February 2022 – Present**

- Developing personal website using Node.js and React.js; deployed using AWS
- Includes custom-built "My Dashboard" App (Java Spring and Angular, specifying a RESTful API to connect to a MySQL database. Hosted on AWS). Accessible at **http://mydashboard.matthewbisicchia.com/**. Rather crude; designed in part for a basic programming challenge. GitHub for this project also available at bottom of site.
- Personal site will store knowledge/original notes learned during college (ex, electronics theory), as well as other side projects: for knowledge retention as well as for education
- Will include interactive visual diagrams currently being built with JS, HTML, and CSS

**Development of Hospital-based Medical Software System        February 2022 – Present**

- Currently on team at Rowan University in assisting the growth of an iOS/Android platform, to integrate to a Node backend & React web frontend for medical personnel.

**Research of Efficiency of Ensemble Models for ICU Mortality Prediction    Spring '21**

- Participated in research team to analyze efficiency of hyperparameter-tuned Scikit-learn Machine Learning models in predicting 24-hour patient survival in ICU.

**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**