

Education:

Rowan University, Glassboro, NJ; Class of 2022
Graduate, GPA: 3.91/4.00; Summa Cum Laude

- 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:

- Algorithm Development, Data Structures
- Embedded Systems
- Verilog HDL, ModelSim
- Cadence Virtuoso
- C++
- C#
- Python
- Front & Backend Web Application Development
- Amazon Web Services, Cloud Computing
- Software Specifications and Documentation
- Object Oriented Programming and Design
- Knowledge of Functional Programming Paradigm
- Public Speaking, Product Demos, Tech. Writing
- Linux; Oracle VM Box
- Java, as well as Java Spring Boot
- JavaScript, TypeScript
- Node.js, Express.js, React.js, Redux
- RESTful API; Insomnia, Postman
- Angular
- HTML5 and CSS
- MySQL database
- MongoDB
- Visual Basic; worked in Visual Studio
- Git; GitLab, GitHub, Bitbucket
- CI/CD Pipeline, Automated Builds
- Test-Driven Development (L1, L2, Regression)
- Unit testing (work in xUnit)
- JIRA/Communication/Teamwork/Agile/Scrum
- Scikit-learn
- Kali Linux (for Penetration Testing)
- Unity Game Engine
- MATLAB
- Bi-Literacy in the Italian Language

Completed Coursework:

- Honors Data Structures and Algorithms
- Honors Design and Analysis of Algorithms
- Computer Architecture
- Very Large Scale Integration
- Electronics
- 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)
- Intro. to Digital Systems, Electrical Circuit Analysis, Intro. to Embedded Systems, Engineering Electromagnetics, Intro. to Systems and Control

Matthew Joseph Bisicchia matthewbisicchia@gmail.com | 856-834-0096

Site: www.matthewbisicchia.com GitHub: [www.github.com/MatthewBisicchia](https://github.com/MatthewBisicchia)

Objective

Motivated to add value. Ready to apply work ethic to software and/or hardware purposes with team members in collaborative environments, and manage different projects/responsibilities/goals at any given time. Will present/speak in product demos.

Employment/Volunteerism

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

- Updated legacy code and developed new features, wrote and performed tests (for level 1 and level 2/regression testing).
- Scrum, Agile framework; member of highly collaborative, DevOps driven team; conducted 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.
- Realized passion for teaching and helping fellow colleagues.

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.

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.

Programming Project Experience

Development of Cloud Applications and Website

- Developing personal website using Node.js and React.js; deployed using AWS.
- Includes “**MyDashboard**” App (Java Spring and Angular) and “**BioLab**” App (React, Redux, Express) (in website’s monorepo) (link to personal website is at top of Resume).
- Uses AWS Elastic Load Balancers for HTTPS configuration.
- Specifies RESTful API to connect to MySQL database (AWS RDS).
- Code repositories accessible on GitHub (link at top of Resume).
- 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

- Currently on team with 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

- Analyzed efficiency of hyperparameter-tuned Scikit-learn Machine Learning models in predicting 24-hour patient survival in ICU. Part of team at Rowan University.
- Experience with Big Data. Utilized tools such as Data Imputation, SMOTE, Grid Search, Numpy, Pandas, Confidence Intervals, ROC AUC, K-Fold Cross Validation.
- Investigated Bagging, Boosting, Gradient Boosting, and Random Forest classifiers. Wrote scripts in the Python programming language, ran jobs on Linux server.

Web Game

- Started developing a 2D game in JavaScript. Learned through self-study and through online learning. Created quick open-source boiler plate code template for a 2D web game, which is available on GitHub (link at top of Resume).