Belal Said

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EDUCATION

RUTGERS UNIVERSITY
BS in Computer Science
Grad. May 2018 | New Brunswick, NJ
GPA: 3.85 / 4.0
Conc. in Software Engineering
Dean's List (All Semesters)

JOHN P. STEVENS HIGH SCHOOL
Grad. June 2014 | Edison, NJ

LINKS

Github:// **belalmksaid**
LinkedIn:// **belalmsaid**
Website: **belalmksaid.github.io**

COURSEWORK

UNDERGRADUATE
Computer Architecture
Data Structures
Artificial Intelligence
Computer Modeling
Probability Theory
Discrete Structures
Advanced Engineering Calc

SKILLS

PROGRAMMING
Java • C/C++ • C# • Matlab
Python • Javascript • CSS • PHP
Assembly
Environments/Platforms:
AS3 • Android • MySQL • Node.Js
Arduino • Raspberry Pi • AJAX

OTHER
Solidworks/CAD • Excel • Access
Powerpoint

PROJECTS

PACMAN AI LAB
Created an AI that learns how to play Pacman after multiple generations using a genetic algorithm

C# RAYTRACER
Developed a raytracer from scratch based on the book *Physically Based Rendering* by Matt Pharr.

EXPERIENCE

WAEC | Software Engineering Intern
June 2016 – Sep 2016 | Washington, DC
- WAEC is a startup that works on creating profitable automated drone delivery systems
- Programmed the entire system for air highways and programmed the drones to move in them using a GPS System

ALLSTATE INSURANCE | Data Analyst
Jun 2014 – Sep 2014 | Edison, NJ
- Wrote a software to extract customer data and to determine which customers are more likely to buy AllState insurance

RESEARCH

ARESTY RESEARCH PROGRAM | Undergrad Researcher
Jun 2015 – Present | New Brunswick, NJ
- Coordinated with a team of PhD students to optimize and document SteerSuite, a crowd simulator written in C++
- Developed an algorithm that outputs the optimal evacuation plan for a floor in a building
- Designed a C# plugin for Autodesk Revit to incorporate SteerSuite and make it user friendly

MECHATRONICS LAB | Undergrad Researcher
Oct 2015 - Mar 2016 | New Brunswick, NJ
- Worked with Engineering graduate student to build and design quadcopters.
- Programmed quadcopter in C++ and PX4 Autopilot to communicate with room sensors
- The aim of the project is to be able to coordinate between quadcopters and rooms sensors to perform complex maneuvers in the air

EXTRACURRICULARS

IEEE | PacBot Team Captain
Sep 2015 – Present | Rutgers University
- Designed and programmed a robot that navigates a maze and avoids ghostBots.
- The robot was designed from scratch with the body 3D printed and an algorithm written in C++ for Teensyduino 3.1 microcontroller

ASME | Robotics Team Captain
Sep 2015 – Present | Rutgers University
- Leader of programming team. Designed a robot that had to climb stairs, hit a golf ball, and launch a tennis ball
- The robot was modeled on Solidworks and built using Rutgers' machine shop

INTERNATIONAL SANITATION ORGANIZATION | Volunteer
Jun 2013 – Present | Edison, NJ
Helped fundraise for ISO, a legal 501c3 certified non-governmental organization, which has collaborated with UN recognized organizations to bring fresh water to thousands of people in Africa