Belal M. K. Said

belalmksaid@gmail.com   (732) 372-1253   Edison, NJ 08820
github.com/belalmksaid   **linkedin.com/in/belalmsaid**   **belalsaid.com**

Education

Rutgers University-New Brunswick   **09/2015 - 05/2019**
BSc in Computer Science and Applied Science Eng   **Relevant Coursework:** Data Structures, Computer
Dean's List (every semester)   Architecture, Discrete Structures, Probability Theory,
GPA: 3.86/4.00   Artificial Intelligence, Circuits

Technical Skills

Proficient: C/C++, Python (numpy, pandas), Java, Javascript (Node.Js), C# (ASP.Net, WPF), Matlab. **Familiar:** PHP, Go, Flask, CUDA, SQL (MySQL, MSSQL). **Technologies:** Git, Bash, Linux, Windows, Visual Studio, Eclipse

Experience

AQR Capital - Software Engineer Intern - Greenwich, CT   **06/2018 - 08/2018**
— Implemented an email analyzer system that uses text analysis and Naive Bayes to determine critical client emails
— Built a data consolidator that synchronizes front office and back office trading data using a simple versioning system

Facebook - Software Engineer Intern - Menlo Park, CA   **01/2018 - 03/2018**
— Implemented a python static analyzer that constructs call graphs using AST to perform function call analysis
— Built a python code modifier that uses static analysis data to detect synchronous bottlenecks and migrate them to async
— Helped design Facebook-wide python programming standards and best practices

Colgate-Palmolive - Software Engineer Intern - Piscataway, NJ   **06/2017 - 11/2017**
— Built and designed OMNIPAL, an all-knowing web application that uses natural language to expose multiple data APIs
— Built a RESTful API in Node.Js to standardize voice command matching using MonogoDB as the NoSQL database
— Designed a library from scratch in javascript that generates simple machine learning models for OMNIPAL

SteerSuite under *Professor Mubbasir Kapadia* **- Research Assistant - New Brunswick, NJ**   **06/2016 - 08/2016**
— Coordinated with a team of PhD students to optimize SteerSuite, a crowd simulator written in C++
— Reduced simulation time by 17% by implementing bounding boxes and Dynamic Bounding Volume Hierarchies

Projects

Pyan4 (Python 3.6)   **01/2018 - Present**
— A python static analyzer developed while at Instagram based on Pyan3 by David Fraser
— Improved over Pyan3 performance by ~240%

Speed Prediction (Matlab/Caffe) - github.com/belalmksaid/speed_prediction   **07/2017 - 12/2017**
— Predicted instantaneous speed of a moving car from a live dashcam video within ± 1 mile accuracy by using Farneback optical flow, a deep learning network, and exponential moving average

PacmanAI Lab (Javascript) - github.com/belalmksaid/PacmanAILab   **01/2017 - 08/2017**
— Implemented genetic algorithm with simple neural networks to teach an AI how to play pacman in javascript
— Built a simple framework from scratch to emulate multithreaded applications to avoid freezing the browser

Internet of Things (Javascript/Node.Js) - github.com/belalmksaid/ioi   **01/2014 - 03/2017**
— Connected home electronic devices such as lamps, a fridge, a microwave, and a minivan to the internet using electrical IMPs and mapped them to a NodeJs server
— **Won Internet of Things award from Intel at PennApps 2014**

Extracurriculars

IEEE - PacBot Team Captain - github.com/belalmksaid/PacBotCode   **10/2015 - Present**
— Created an algorithm for the bot to navigate a maze and avoid the ghosts, optimized in Assembly to run on teensyduino. The robot was designed using a custom PCB circuit and a 3D printed body
— **Won first place at Harvard PacBot Competition 2017**