Aeybel **Varghese**

Computer Engineer

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Education

The University of Texas at Austin — *Austin TX*

B.S. in Electrical and Computer Engineering — *2020-2024*

- Third Year ECE Student in the Software Engineering and Design Tech Core

San Jacinto College South — *Houston TX*

Dual Credit Student, Associates in General Studies — *2016-2020*

- Received a Associates Degree and High School Diploma as part of the Early College High School Program

Clear Horizons Early College High School — *Houston TX*

Summa Cum Laude — *2016-2020*

- Graduated Summa Cum Laude with a Class Rank of 19

Work Experience

Dr. Pamela Betts Engineering Mentorship — *Houston TX*

Software Engineer — *Spring 2019 & Fall 2019*

- Mentored under Professor Pamela Betts of San Jacinto College in a student-driven mentorship to deliver six products
- Lead developer of a team of three, worked closely with team members to designate tasks and coordinate completion of the products.
- Worked in a variety of fields including Neural Networks, Simulations, Embedded Systems, and Game Development

Skills

Languages	C, C++, Java, Python, JavaScript, C#, ARM Assembly, Shell Scripting (UNIX & Windows)
Technologies	Node.Js, React.Js, React Native, Electron, MongoDB, JavaFX, NumPy, Jupyer Notebooks, STM32, Arduino
Tools	Git, GNU/Linux, GDB, Valgrind, Autodesk Eagle, Autodesk Fuction 360
Soft Skills	Leadership, Teamwork, Public Speaking, Professional Attitude

Projects

USB MacroPad

Cross-platform Macropad/Numpad — *Ongoing*

- Working on a STM32 based Macropad running custom firmware and custom PCB design with sockets for 12 Cherry MX style key switches

NFC Business Card

Unique business card with NFC capabilities to open my LinkedIn on a NFC-Enabled Device — *January 2022*

- Designed a custom PCB containing relevant personal details printed in silk screen, QR code to personal pages, and a NFC chip to open my LinkedIn

Neural Network Flappy Bird

Neural Network that can play the game Flappy Bird by itself — *2019*

- Wrote a neural network and implementation of the game flappy bird written in Python from scratch

Fall 2019 Mentorship Projects

A series of projects exploring Neural Networks and Simulations — *2019*

- Created a Binary Classifier writtten from scratch, Nationality Classifier written in Python with Tensorflow, and a Mars Rover Simulation made in Unity3D

Spring 2019 Mentorship Projects

A series of projects exploring Simulation Programs, Embedded Systems, and Game Development — *2019*

- Built a Projectile Motion Physics Simulation for use as a education program, Robot Car Project made with the Arduino Platform, and 2D Game created with Unity 3D

Discord Bot

A Discord Bot to remind classmates of schoolwork — *2018*

- Wrote a Discord Bot written with Javascript that notifies students of school events, classroom assignments, and announcements.