

# Nick Maleki

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## Education

### University of North Carolina at Charlotte

- Master of Science in Computer Science | 3.90/4.00 GPA | August 2019 - December 2020
- Bachelors of Science in Computer Science | 3.77/4.00 GPA Magna Cum Laude | August 2017 - May 2020

## Technologies and Skills

**Programming Languages:** Python, JavaScript, Java, C#, C++, LISP, Julia, SQL, Visual Basic, HTML, XML, CSS

**Tools, Frameworks, Skills, and Operating Systems:** React, React Native, PostgreSQL, .NET, .NET Core, AWS, OpenCV, Node.js, WebGL, MongoDB, Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Flask, VirtualBox, Docker, VMWare, WebGL, OpenGL, SQLite, Git, Android Studio, Xcode, Altium Designer, SOLIDWORKS, JetBrains, Visual Studio, Atmel Studio, Unity, Windows, Ubuntu, macOS, Agile, Scrum

**Certifications:** Cisco Certified Network Associate (CCNA), Adobe Premiere Pro, Davinci Resolve Fusion, Microsoft Office Suite Certipoint Certified: Word, Excel, PowerPoint

## Projects

### Robot Control System | 2019

Path planning, PID control, autonomous, and intelligent robot programming. • ROS, Python, DSP, ASP

### Client-Server Chat App | 2020

Programmed TCP over UDP to learn each and wrote an asynchronous client-server chat app. • Wireshark, Python, TCP, UDP

### LabJack Wrapper | 2018

Designed a custom wrapper for LabJack devices which brings high level arduino-like functions to the device for immediate scientific data exploration and gathering with Python. • Python, ASP, DSP

### Blockchain on BLE Android App | Duke University Hackathon | 2019

Led a team of three software engineers to make an application which brings a message board to a place without internet. Built with a decentralized blockchain over Bluetooth Low Energy. • Android Studio, XCode, Firebase, Kotlin, Java, iOS, Swift, Bluetooth, BLE

### Computer Vision Projects | 2019

Achieved the top 1% of scores on every assigned CV class project: Application scraper, eye-tracker, fourier domain processing, and an image classifier using an SVM. • MATLAB, Julia, Python, OpenGL, scikit-learn, numpy, pandas

### PearlPlotter | 2019

Designed and built physical automation devices that measure the intensity of light produced on an XY plane. Programmed a GUI to control the device settings and view data in real time. Integrated calculator and MS Word manual generator where the user can input raw sensor values, calibration curves, and light spectrums to create adjusted intensity plots, averages, and custom values. • C#, .NET, Windows Forms, Excel, Word, PowerQuery, Python

## Work Experience

### Software Engineer | Recursion Computing | 2021 - Present | Remote

Open Source software development on freely deployable github pages websites and a decentralized code editor that brings over 40 programming languages to the user without installation. Educational computer science and directed-graph notes website. • React, SBCL, cl-opengl, CEPL, SLY, SLIME, Davinci Resolve, C, C++, Unreal Engine 5, Blender, Python, DCTL shaders, HLSL, Fusion Studio, Fairlight, node-based compositing, VFX, GFX, Geometric Algebra, PostgreSQL

### Software Engineer and Analyst | Aquisense Technologies | 2018 - 2021 | Charlotte, NC and Remote

Designed custom Ultraviolet research tools and equipment on a cross-functional team. While leading development of numerous products, I worked with over 30 universities and 40 companies including NASA JPL, KBR, Boeing, Mitsubishi, etc. Built cloud-hosted version control systems for software, electrical, and mechanical teams. Migrated millions of SQL entries of customer and product data to a database and visualized this data on an interactable dashboard. Built numerous automation systems, ran data analysis, and programmed embedded devices. • Python, C#, Objective-C, Atmel, COMSOL, SOLIDWORKS, Altium Designer, PostgreSQL, Grafana, PLC, AWS, DSP, ASP

### Graphic Designer and Social Media Marketer | University of North Carolina at Charlotte | 2017-2018 | Charlotte, NC

Designed official UNC Charlotte graphics and maintained University social media web pages. • Adobe Suite, GIMP, Inkscape, HTML, CSS

## Leadership

### President | App Ventures | 2020 - 2021

Lead and taught 150 university students to build Android and iOS applications. Designed fast-paced courses in app development and GUI design. • Kotlin, Java, Android Studio, Swift, XCode, Adobe CC

### Officer | Web Dev 49 | 2020 - 2021

Lead a group of 50 university students to build websites and web apps. • JavaScript, TypeScript, React, Vue, Node.js, Firebase, Postman, Django, MongoDB, Flask

## Volunteer Work

### Moderator and Vectors Team Member | Inkscape | 2020 - Present

Troubleshooting user issues and bugs in this open source project with over 10 Million Users. • C++, Python, SVG 2

### Mentor | FIRST Robotics Team 5190 | 2017 - 2019

Mentored an award winning FRC team of over 70 students on programming, electrical engineering, mechanical engineering, graphic design, and marketing. • Kotlin, Java, LABVIEW, Python, SOLIDWORKS, Autodesk Inventor, ASP, DSP, cRIO, Adobe Creative Cloud, Inkscape, GIMP