

# NICOLA FOLCHI

## EDUCATION

### BACHELOR OF SCIENCE IN COMPUTER SCIENCE

University of North Carolina, Chapel Hill | August 2018 - December 2020

### ASSOCIATES OF ARTS IN COMPUTER SCIENCE

Miami Dade College | January 2016 - May 2018

Dean's List; Phi Theta Kappa Honors Member

## EXPERIENCE

### WEB DEVELOPER/PROJECT MANAGER | University of North Carolina, Chapel Hill | August 2019 - Present

- Develop, update, and maintain the Biochemistry and Biophysics Department's manual website, using **HTML**, **CSS**, and **JavaScript**, which includes instructions for employees performing research in labs
- Migrate and automate research lab's order expenses data to an online Excel sheet through **Microsoft Forms** and **Microsoft Flow**, allowing labs to operate in online settings

### ICG TECHNOLOGY SUMMER ANALYST | Citigroup, New York | June 2020 - August 2020

- Developed a stock analysis tool that featured modeling and forecasting of portfolios and provided historic data of the 500 companies driving the economy. Utilized **Python**, **Jupyter Notebook** and **PowerBI**
- Created a prototype responsible for scanning and extracting all data from images and documents to facilitate on-boarding for small businesses and reduce human interaction at Citi. Used **Python**, **Flask**, **AWS S3 Bucket**, and **AWS Textract API**
- Implemented a web application for small business customers to facilitate the process of applying for PPP Loan Forgiveness at Citi. Employed **React**, **Node.JS**, an **AWS RDS MySQL** instance, **HTML** and **CSS**

### IT NETWORK SPECIALIST | Miami Dade College, Miami | January 2018 - August 2018

- Delivered an interactive website built with **JavaScript**, **HTML** and **CSS** to provide directions to the different departments on campus, focusing on assisting first-year students
- Developed and maintained Amazon's Alexa devices using **JavaScript** and **Lambda** functions to assist students and staff on campus
- Oversaw the daily performance of the college computer system
- Coordinated the multimedia equipment and computer software distribution and use on campus

## PROJECTS

### MELOPHYLE | melophyle.com | May 2020 - Present

*Web application focused on providing a space to discover new music as well as sharing, rating, and reviewing albums and tracks*

- Developed a full-stack application where its back-end utilizes **Node.JS** (implementing **Express**) and **MongoDB**. Front-end employs **JavaScript** to render Dynamic content, and it's styled with the **Bulma** CSS framework

### MINIJAVA COMPILER | minijava-compiler.herokuapp.com | January 2020 - June 2020

*Java program that functions as a compiler for miniJava, which is a subset of Java, featuring visitor design pattern throughout the program*

- Created a compiler that performs syntactic analysis, abstract syntax tree construction, identification checking, type checking, and code generation for any given miniJava source code
- Deployed a showcase version to Heroku, which incorporated **Java servlets** through **Apache Tomcat** into the project to handle the miniJava input program and the compiler's output

### STODIUS | stodius.com | January 2020 - May 2020

*Web application focused on improving academics at UNC by facilitating the creation of study groups for individual classes*

- Led the project as the Full Stack Developer with 3 team members
- Focused on the back-end programming and database management side of the product, which was built using **Node.JS** and **MongoDB**

## CONTACT

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## SKILLS

Java

JavaScript, Node.JS

HTML, CSS, jQuery

Python, Flask

C

MongoDB, SQL

Bash

Git, Github

Data Analysis

JSP

Java Servlets

AWS

Microsoft Excel, Word

WordPress

Windows, Linux

## CAMPUS INVOLVEMENT

Advanced Programming

Learning Assistant

UNC-CH Game Development

Club Treasurer

MDC Computer Club Member

## COURSEWORK

Data Structures

Object Oriented Programming

Algorithms and Analysis

Computer Organization

Files and Databases

Security Concepts

Advanced Web Development

Unix Tools

Models of Languages and

Computation

Compilers

Software Startup Management

Operating Systems

Linear Algebra

Probability

Discrete Mathematics

Advanced Calculus

## LANGUAGES

English - Fluent

Spanish - Fluent

Italian - Intermediate