Nicola Folchi

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Employment

Software Engineer — Citigroup, New York — **March 2021 - Present**
- Implement the Timepoints and Liquidity Spread Curve capabilities within our pricing application in the Foreign Exchange - Price Controller Team, resulting in an average **annual revenue increase of $7 million**
- Develop an automated event report for the Equities Calculation Services Team, offering a comprehensive overview of the duration and result of daily processes. Achieved an annual cost reduction of approximately **$200K**, saving an average of **20 hours of work** per week
- Lead the execution of our Global ICG Tech Hackathon in the NAM region, overseeing operations in New York, Tampa and Mississauga, with a total of approximately 120 participants

Full Stack Developer — UNC-CH, Chapel Hill — **August 2019 - Present**
- Migrate and automate order expenses data from a research laboratory to an online Excel sheet using **Microsoft Forms** and **Microsoft Flow**. The initiative facilitated laboratory operations in online settings, leading to a reported **93% increase in lab efficiency** as reported by 30 researchers
- Build, update, and upkeep the Biochemistry and Biophysics Department's manual website, utilizing **HTML, CSS**, and **JavaScript** to provide directives for lab personnel conducting research, achieving a **57% website traffic increase**

Software Engineer, Intern — Citigroup, New York — **May 2020 - August 2020**
- Computed a stock analysis tool that featured modeling and forecasting of portfolios and provided historic data of the 500 companies driving the economy. Utilized **Python, Jupiter Notebook** and **PowerBI**
- Created a prototype responsible for scanning and extracting all data from documents and images 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 — **September 2017 - August 2018**
- Delivered an interactive website built with **JavaScript, HTML and CSS** to provide directions to the different departments on campus, assisting approximately **7,500 students**
- Developed Custom Skills for Amazon's Alexa devices to assist students with information on class schedules, operating hours, and upcoming events on campus. Utilized **JavaScript** and **Lambda** functions

Education

University of North Carolina, Chapel Hill — **August 2018 – December 2020**
- Bachelor of Science in Computer Science

Miami Dade College — **January 2016 – May 2018**
- Associate of Arts in Computer Science
- Dean's List; Phi Theta Kappa Honors Member

Projects

Melophyle — **2020 - Present**
Platform that provides a space to discover, share, rate, and review music
- Act as the sole FullStack Developer, spearheading the design and leveraging the Spotify API to create a platform that enables users to discover their favorite artists and connect with like-minded individuals through the creation of posts and comments. Utilizes **Node.JS** (implementing **Express**), **MongoDB**, **JavaScript**, and **Bulma** CSS framework

MiniJava Compiler — **2020**
Compiler for miniJava, a subset of Java, featuring the visitor design pattern
- Created a compiler that performs syntactic analysis, abstract syntax tree construction, identification checking, type checking, and code generation for any given miniJava source code
- Engineered a full-stack version incorporating **Java servlets** through **Apache Tomcat** to handle the miniJava input program and the compiler's output

Stodius — **2020**
Platform focused on improving academics at UNC by facilitating the creation of study groups for individual classes
- Led the team of 3 fullstack developers by implementing the Agile Methodology and taking on the role as Scrum Master
- Focused on the back-end programming and database management side of the product, which was built using **Node.JS** and **MongoDB**

Languages and Technologies

- Java; JavaScript; Node.JS; Bash; Python; Flask; C; Mockito; TibRv; C#.NET; MongoDB; SQL; HTML; CSS; jQuery; Git; Pandas; JSP; Java Servlets; AWS; LaTex; PowerShell; PowerBI
- English (Fluent); Spanish (Fluent); Italian (Intermediate)