Roxanne Amoghli Farhad

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Education

Columbia University, Columbia College   **New York, NY**
Bachelor of Arts, Major: Computer Science   September 2017 - May 2021
- GPA: 3.6 / 4.00
- Relevant Coursework: Natural Language Processing, Artificial Intelligence, Data Structures & Algorithms, Computer Graphics, Databases
- Honors: Dean's List Fall 2018, Dean's List Spring 2019, Dean's List Spring 2021
- Scholarships: Recipient of ISF (Iranian Scholarship Fund) for 2019-2020/2020-2021

Godolphin and Latymer School   **London, UK**
General Certificate of Education Advanced Level   May 2017
- Academics: International Baccalaureate (42/45) points | IGCSEs (10A*, 1A)

Professional Experience

Waybridge LTD   **New York, NY**
Software Engineer   July 2021 - Present
- Work primarily as a backend engineer, with some frontend work, to build and ship new features on the logistics platform including contributions to our automated shipment file parser, shipment tracking integrations, and shipment identifier logic- written in Python/Graphql/Django/ PostgreSQL on the backend and React/Typescript/Relay on the frontend.
- Lead the backend team, including scoping the product and tech spec, to build historical and real time representations of shipment tracking data.
- Improved the performance of our software by contributing to internal tools that marked slow performance, and worked on their optimizations.

The Power of Music   **New York, NY**
Backend Software Engineer (Freelance)   January 2021 - May 2021
- Built out the entire backend infrastructure and CI/CD pipeline, written in Typescript and attached to a PostgresSQl database.
- Designed and built the REST API, including waitlist, authentication services and integrations with other APIs.
- Created the core algorithm of the service that would build better playlists for users based on their listening history.

Flox.app   **New York, NY**
Full Stack Software Engineer (freelance)   May 2021 - July 2021
- Solely responsible for setting up the frontend and backend infrastructure, written in React/Typescript and attached to a PostgresSQl database.
- Built the initial v1 of the product (flow.app), which allowed users to create their own parties and manage reservations.

Nate LTD   **London, UK / New York, NY**
Software Engineer Intern   June 2020 - December 2020
- Worked with the backend team to build new API endpoints, deploy them through terraform and connect them to the mongoDB database.
- Created an automated system to write reports of the performance of their training tools and stored them in AWS S3 containers.

Deutsche Bank – DWS   **New York, NY**
Summer Analyst as part of the dbAchieve Internship   June - July 2019
- Built models for the Global Liquidity Management team to compose yield matrices for our portfolios.
- Produced financial analysis and research on equities to be potentially incorporated into a new DWS technology fund.

Blokur LTD   **London, UK**
Summer Intern – Full-Stack Software Engineer   July - August 2018
- Worked on the fall-stack of the platform to collect and map new data, and then integrate it onto the UI in ReactJs.
- Created an automated and efficient program to ingest millions of music metadata from public APIs in NodeJs.

Research Experience

Open-Source Portable Ultrasound Research Project   **New York, NY**
Undergraduate research position within the Computer Science team   September – December 2019
- Computed an animated 3D visualization of ultrasound scans using the VTK library in C++.
- Solely responsible for building the algorithm that would process the signals into vector points to be visualised.

Digital Foods Research Project (Creative Machines Lab)   **New York, NY**
Undergraduate research position on the Computer Science team (cut short due to COVID 19)   January – March 2020
- Built a GUI using QT and VTK/OpenGL in C++ that allowed users to define the appearance of their food.

Leadership Roles

Teaching Assistant at Columbia University   **New York, NY**
Introduction to Databases   January 2021 - May 2021
- Chosen to be 1 of 10 TAs for the class (over 250 students per semester) having scored in the top percentage of the class the semester before.
- Held 2 hours of office hours a week for students, graded weekly homework and exams, as well as collaborating with other TAs to create the papers.

Girls Who Code at Columbia University   **New York, NY**
Managing Board Member and Webmaster   March 2019 - Present
- In charge of maintaining and updating the website for the Girls Who Code organisation at Columbia University.
- Student mentor and event organiser to connect our students to our sponsors, such as Google and MongoDB.

Columbia Venture Partners   **New York, NY**
Analyst Cohort   October 2018 – September 2019
- Part of a two-semester program that teaches a group of selected students the foundations of qualitative and quantitive financial analysis.

Technical Skills

Preferred languages: C, C++, Java, Python, Javascript/Typescript, NodeJs, HTML, SCSS
Experienced frameworks: Graphql, REST, React, Relay, Django, ORMs, PostgreSQL, MongoDB, CI/CD, Docker

Interests

Languages: French (fluent comprehension, intermediate oral), Iranian (fluent comprehension, intermediate oral)
Skills: Previously nationally ranked as 150th by LTA, Bartending (Degree from the CBA), Skiing