Fernanda Palacios

fernanda.palaciosaltamirano@mail.utoronto.ca | website: https://fernanda-palacios.github.io | LinkedIn

Education

Bachelor's Degree in Computer Science - University of Toronto   Graduated: 05/2022
- Honours BSc with High Distinction
- Relevant courses: Software Design, Data Structures, Algorithms, Databases, Web Development, Operating Systems, Principles of Programming Languages, Computer Networks, additional courses in Mathematics and Statistics
- Clubs: Women in Computer Science, Women in Science and Engineering, UofT AI

Data Science Course - iXperience   07/2017 – 08/2017
Data preprocessing and cleaning methods, data analysis, data visualization.

Business and Entrepreneurship Course - Babson College   07/2014 – 08/2014

Experience

Softwarae Engineer - Loopio   01/2023 – present
Core Experiences Team

Software Engineer - Twitter   06/2022 – 11/2022 | Toronto, Canada
Metrics Backend Team, Observability Platform
- Implemented highly efficient sliding and cumulative functions in Twitter's Cuckoo Query Language (CQL) parser and compiler.
- Introduced the ability to add comments in CQL, improving users' query coding experience by 3x.
- Fixed high-priority bugs and added significant feature improvements for two commonly used CQL functions.

Software Engineering - UofT Hatchery NEST Summer Program ⬈   06/2021 – 07/2021 | Toronto, Canada
Donavi Personal Shopping App
- Implemented a full-stack shopping list application using Javascript, Express, MongoDB and Material-UI, enabling a functional minimum viable product for the startup team.
- Built a multi-step onboarding flow to gather user information for a personalized shopping recommendation system.

Software Engineering Intern - Taplytics (customer experience platform) ⬈   05/2019 – 04/2020 | Toronto, Canada
- Led the development of collaborative editing for email marketing campaigns including establishing requirements and implementing with Socket.io and Express, resulting in 3x growth in customer membership.
- Worked closely with product, sales, and the engineering team to scope out, architect and build a new JavaScript SDK using Cloudflare workers. This newer SDK reduced response times by 75% and it also reduced cost by 30% for customers with extremely high traffic volume.

Software Engineering Intern - Kushki (online payments platform) ⬈   05/2018 – 08/2018 | Quito, Ecuador
- Constructed a data pipeline between DynamoDB and Redshift using Node.js for merchants' information. This allowed the engineering and business teams to have synchronized, real-time information across databases.
- Automated a SQL views creation process for the business team to view and save custom tables by region, sales, and other variables. This increased the time efficiency of retrieving data by 500% and the ease of generating data-driven insights for their team.

Data Science Intern - M4Jam (micro-jobbing platform) ⬈   07/2017 – 08/2017 | Cape Town, South Africa
- Analyzed churn rate data and conducted user research with ten micro-tasker platform users. My findings led to a new payment model for micro-taskers.

Software Projects

Traffic Data Requests Web App - Project for the City of Toronto   09/2020 – 12/2020
- Served as project liaison between the client and our team to define product requirements and coordinated 100+ engineering tasks, building a web application used by hundreds of consultants.
- Implemented map interface using Mapbox API and HERE tiles, allowing users to define complex street segments on the map and automatically validate and modify routes based on available traffic data from the team's big data repositories.

Capstone Design Project - UofT CS Department Innovation Lab   01/2019 – 04/2019
- Built a software service in Python which detects IoT devices in the network with compromised passwords by using Telnet testing and Pwned Passwords' API.
- Created a web application prototype with HTML and Jekyll for users to easily manage their IoT devices' passwords.
- Presented the project along with a business model to industry professionals, ranking 3rd among 15 contenders.

Leadership and Activities

Director of Industry Mentorship - Women in Science and Engineering UofT   09/2018 – 04/2019
- Led team of 4 executives to connect 50 female undergraduates in STEM with industry mentors.
- Rebranded the program by redesigning website and messaging, resulting in a 200% increase in mentee applications.

Founder and Director - CS Project Include Ecuador   05/2017 – 07/2017
- Devised the vision and strategy for the project, recruited the leadership team, and established partnerships with several organizations.
- Led the development of the teaching curriculum and ran 14 workshops to introduce Computer Science to 350+ students in Ecuador.

Skills

Programming: Python, Javascript, Java, Scala, C, Typescript, R | **Technologies:** Git, Databases, REST API's, React, HTML, CSS