

Fernanda Palacios

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Education

Bachelor's Degree in Computer Science, University of Toronto

Graduation Date: 05/2022

- Relevant courses: Software Design, Data Structures, Algorithms, Databases, Web Development, Operating Systems, Theory of Computation, 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

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 200% 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.

Movie Review Web App

09/2018 – 12/2018

- Implemented user profiling and authentication using HTML, Javascript, Express and Bcrypt's hashing library.
- Built an admin dashboard and connected it to The Movie Database's API for an admin to efficiently populate the app from a library of 600k+ movies.

Image Organizer Desktop App

09/2017 – 12/2017

- Implemented the front-end using FXML as well as numerous back-end features to update photos and tags in Java. The focus was on following a Model-View-Controller framework as well as Objected-Oriented Design Patterns such as Observers/Observables and Factory Classes.

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 local high schools, universities and sponsors such as Project Include at the University of Toronto.
- 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, C, R | **Technologies:** Git, Databases, REST API's, React, HTML, CSS