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Ibrahim T. Miraj

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Education

Montreal, QC	McGill University	Jan 2018 – Apr 2023 (Expected)

- B.Eng in Computer Engineering. GPA: 3.64

Technical Skills

- **Languages:** Typescript, Java, Python, Javascript/HTML/CSS, SQL, Ruby
- **Technologies:** ReactJS, Bootstrap, Spring Boot, JUnit, Hibernate, Vue, Numpy, Node, ActiveRecord, Mocha
- **Tools:** Git, Docker, Cypress, Cucumber.io, Jira, Rundeck, Figma, Postman

Work Experience

Software Developer, Intern	Publicis Sapient	May 2021 – Aug 2021

Consulted on projects for a large Canadian bank, a client of Publicis Sapient
- Developed application for account managers that derives insights into creditor habits using historical data
- Designed 5 wireframes for product using **Figma**
- Created a detailed 15 component software architecture for the **React** front end, ensured good documentation
- Led team of 4 interns in frontend implementation using React, **JS** and **TS**, ensured integration with the backend
- Implemented 14 REST API endpoints using **Java Springboot**, connected it to an **SQL** database
- Wrote 45 automated tests throughout codebase using **Mocha** and **JUnit**
- Presented the project to stakeholders at the end of the internship, voted 2nd best project among ≈20 teams

Software Engineer, Intern	Autodesk	Jan 2021 - Apr 2021

Worked on Shotgrid, an academy award winning VFX pipeline web application
- Deployed major release feature allowing users to customize Shotgrid by changing which features are enabled
- Used **ExtJS, Javascript** to create user interface to input 23 distinct customization settings
- Modified existing user interface to reflect the changes caused by user customization throughout the application
- Implemented request handling in **Ruby** and modified **ActiveRecord** database schema to handle customization
- Wrote efficient **SQL** queries to perform database migrations to new schema on 1000s of client databases
- Created 9 end-to-end tests for feature using **Cypress**, tested changes on **Rundeck** cloud site before deployment
- Streamlined **ReactJS** UI by removing 150 items in site preferences menu whilst maintaining functionality

Web Developer & Sponsorship	Montreal Space Symposium	May 2019 – Jan 2020

MSS is a conference that brings together students, government officials, academics involved in the space industry
- Designed and developed event website front end and integrated it with content management system
- Secured 10,000$ in funding from CAMAQ, iREx, McGill, MDA, Balsamiq and various other organizations

Projects

Count Yours Outs (2020)	countyourouts.netlify.com

- Developed a web app that allows users to practice poker math through randomly generated questions
- Implemented a fully responsive UI using **React, HTML, CSS, JS** and **Bootstrap** for mobile and desktop
- Developed a **NodeJS API** implementing novel algorithms to generate an infinite number of poker draws
- Connected the frontend to NodeJS API and deployed web app using Netlify

Pristine LCA (2022)	pristinelca.netlify.app

- Conducted recorded user observations of LCA researchers using existing LCA tools to pinpoint UX problems
- Iteratively designed and conducted user testing with multiple possible **Figma** prototypes to refine UI design
- Architected and implemented **React** frontend and created **Python API** to implement program functionality