

TIAGO FERREIRA

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EDUCATION

HBSc. Computer Science – University of Toronto, St. George

EXPECTED APRIL, 2022

- Incoming Senior (4th year), Double Minor in Statistics & Mathematics, **Major GPA: 3.9/4.0**
- Data Structures, Algorithm Design, Databases, Software Design, Machine Learning I & II, Operating Systems

SKILLS

- **Languages:** Python, Java, HTML/CSS, JavaScript, SQL, C, Go, Bash, Julia, R
- **Tools:** Flask, React, Django, AngularJS, Git, TensorFlow, Kubernetes, Spring, AWS, Firebase, NodeJS, Agile

EXPERIENCE

Software Development Engineer Intern – Amazon

SEPT. 2020 – DEC. 2020

Backend Developer – IBM

MAY. 2020 – PRESENT

- Develop and deploy cloud native application through microservices using **Java EE, Go, Docker, & Kubernetes**
- Contribute 5+ times/day to the end-to-end development of guides for IBM's open source Open Liberty project
- Slashed developer workflows, 20%, by refactoring CI/CD pipelines using **Jenkins & Travis CI**, in **Agile** environment

Software Engineer Participant – Google Hash Code & Code Jam 2020

FEB. 2020 – APRIL. 2020

- Applied Data Structures to solve Google engineering problems against professionals, placing In the top 60%

Research Assistant, Data Mining – University of Toronto

SEPT. 2019 – APRIL. 2020

- Delivered actionable insights by decoding and organizing 22+GB XML/JSON European library data using **Python**
- Optimized script efficiency by 75% by managing memory usage and information ingestion using **Elasticsearch**

Software Development Engineer Intern – Publicis Sapient

JUN. 2019 – AUG. 2019

- Learned **AngularJS & Java Spring** application code base in < 1 week to contribute and conduct frontend testing
- Increased \$5 billion+ clients revenue, projected \$2.5 million, by leading the project for an automation tool that scrapes competitor data to predict future product prices through time series analysis, using **Python & MySQL**

Software Developer – University of Toronto Pre-pharmacy Club

DEC. 2018 – DEC. 2019

- Managed client expectations to design and develop an online platform for 500+ students using **Bootstrap**
- Optimized bounce rate by 40%; Improved information architecture through A/B testing on Google Analytics

PROJECTS

Autobot

- Lead 4 students to exploit NLP to engineer a chat bot for a major car brand, projected user flow time improvement of 25%, by using **Dialogflow & Dask** on data of 2+ Million rows and pitched on a **React & AWS EC2** base

Reelml – www.github.com/tiagof99/reelml

- Utilized **Keras** to build a neural network, with 89% accuracy, to detect effect of movie titles on critic scores
- Built GUI for automated data processing so users could visualize predictions using **Flask, JavaScript, & Fetch**

Pinit – www.github.com/tiagof99/pinit

- Developed a social networking platform so users can create and share virtual pinboards with their friends
- Engineered a scalable infrastructure to improve user acquisition using **Django, React, PostgreSQL, & Docker**