MIRCEA GOSMAN, CEP

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TECHNICAL SKILLS

Languages	Python, Javascript, Typescript, Java, C#, C, SQL, Dart, CSS & SCSS, HTML5
Frameworks & Libraries	Keras, OpenCV, Unity, React, Angular, Vue, Node, Spring, Flask, Flutter
Build Systems & Tests	Gradle, Maven, Cucumber, Gherkin, Sinon.JS, Jasmine, Mockito, GIT, JIRA
Machine Learning Models	(DC, SN, and W) GAN, CNN, BERT, Bayes, Lin. & Log. Regressions, MLP

PUBLICATIONS

Paper: Soft Robotics Haptics VR Headset for Social Touch Sept 2022 - May 2023
McGill University Center of Intelligent Machines, Shared Reality Laboratory *Montreal, Canada*

- Submitted Paper to Conference on Human Factors in Computing Systems (CHI). [In Review Stage.]
- 3D printed & quantitatively tested VR headset soft robotics haptic hardware prototype.
- Created VR environment and user study procedure with C# and Unity for hardware prototype user testing.

EXPERIENCE

Summer Technology Analyst May 2022 - Aug 2022
Morgan Stanley *Montreal, Canada*

- Owned the creation of a new distributed system architecture monitoring product. (Angular, Flask, .TS & .PY)
- Tested and deployed the application worldwide with the firm's SDLC using Jasmine, Git, Bitbucket & Jenkins.

Software Engineering Intern May 2021 - Aug 2021
Wise Systems *Montreal, Canada*

- Co-founded an agile squad to implement user roles & permissions in NodeJS + React applications.
- Integration tested my production REST API features with SinonJS.

Software Engineering Intern Jan 2021 - Apr 2021
Bombardier Aviation *Montreal, Canada*

- Led the maintenance of the public facing supplier QA website to keep Bombardier partners up to date with their accreditation status. Product delivered with Java, Javascript, Angular, and VBA.net. [(Live here.)](#)

Data Science Intern Jun 2019 - Aug 2019
Bombardier Aviation *Montreal, Canada*

- Upkept Transport Canada regulations by automating data analysis processes of aircraft parts for auditing teams.

PROJECTS

Machine Learning Toolkit Library Authored an MLP, Gaussian & Multinomial Bayes, and Linear & Logistic regression models from scratch. Implemented and fine-tuned CNN, Bert, and DC/SN GANs with Keras. [(Github)](#)

Computer Vision Scheduling Algorithm. Built a mobile application interface & a server algorithm allowing users to turn images of schedules into computable data structures. [(Github)](#)

EDUCATION

B. Eng. Software Engineering Internship Program, McGill University 2023
GPA: 3.8 / 4.0
Relevant Courses: Classical AI, Applied ML, NLP, Computer Vision, VR & HCI Research.