MATTHEW LESKO-KRLEZA

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WORK EXPERIENCE

Amazon Robotics — Software Engineer May 2021 - Present
North Reading, MA, USA

- Developed front-end, back-end and infrastructure features in a test-driven-development paradigm for Amazon's Delivery Centres and a next-generation storage centre using Kotlin, TypeScript, and AWS to help automate manual labour and improve shipping times;
- Mentored new employees, led technical workshops, reviewed code, designed software, and planned feature epics.

McGill University — Machine Learning Researcher May 2020 - May 2021

- Developed a model training pipeline using Python, PyTorch, and CometML;
- Conducted data analysis on computed tomography scans of cross-sectional images of livers using Python, Bash, and 3D Slicer;
- Wrote a technical and peer-reviewed 70+ page thesis based on my research project.

Amazon Robotics — Software Engineer June - August 2019
North Reading, MA, USA

- Developed an inventory-control ML/computer vision prototype aimed for Amazon's fulfillment centres to potentially help save millions in costs yearly;
- Implemented an image data collection pipeline with camera hardware, Python, and AWS S3 to build data sets from scratch;
- Trained and evaluated CNN and R-CNN classifier and detector machine learning models on aggressively small datasets with Python, AWS SageMaker, and PyTorch (98%+ classifier accuracy);

Deloitte — Full-Stack Software Engineer May - September 2018
Montreal, Qc, Canada

- Developed features for a cloud-based CRM sales product sold to a multi-billion-dollar energy company to improve sales process.
- Implemented data integration solution between Salesforce CRM and accounting systems using Event-Driven Architecture, Mulesoft Rest APIs, and Apex programming (Java-like OOP language);
- Implemented back-end and front-end features for record manipulation with HTML, JavaScript, Apex, SQL;

OTHER PROJECTS

GoLang Compiler in C and Java February - May 2020
Implemented a compiler in C which compiles a significant subset of the GoLang programming language into Java. Team project of 2 consists of over 11'000 lines of code, and 400 test cases. Used the Flex & Bison toolchain.

EDUCATION

McGill University — M.Sc. Computer Science
School of Computer Science *Montreal, Quebec, Canada*

McGill University — B.Eng. Computer Engineering
Department of Engineering *Montreal, Quebec, Canada*