

Yunus Cukran

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EDUCATION

MCGILL UNIVERSITY

B.ENG IN SOFTWARE ENGINEERING
MONTREAL, QC

Exp. Grad December 2020

SKILLS

LANGUAGES

Proficient

Java • JavaScript • C • C#

Familiar

OCaml • Python • ARM Assembly
• L^AT_EX • Bash • Umple

LIBRARIES & MISC.

Proficient

React Native • Redux • Git • .NET
• Linux • OOP • Deep Learning
• Model Based Programming

Familiar

NumPy • SciPy • Keras • scikit-learn
• Java Spring

COURSE WORK

UNDERGRADUATE

- Algorithms & Data Structures
- Applied Machine Learning
- Functional Programming
- Operating Systems
- Software Engineering Project
- Model Based Programming

MINI PROJECTS

PLUGGEDIN

PluggedIn is a parody social media website for androids. Its backend is written in C + CGI + Shell Scripts for an early 90's vibe. Code on GitHub

ARMSYNTH

ARMSynth is a synthesizer implemented on the DE1-SoC Computer for FPGAs. It lets you play music with a PS/2 keyboard and displays sine wave visualizations on a screen

EXPERIENCE

SOFTWARE ENGINEERING INTERN | MICROSOFT JUN - AUG 2019

.NET WinForms app development in C#. Designed and implemented a test content authoring tool for the Microsoft Surface team. The tool was used to merge and resolve conflicts of similar test scenarios.

- Made version control of test content possible by providing a tool for resolving merge conflicts
- Reduced repeated test content by 75%, leading to a more maintainable test system
- Increased test authoring velocity by reducing test content complexity

SOFTWARE ENGINEERING INTERN | SAMBAPOS JUN - AUG 2018

Mobile (React Native) app development. Worked on SambaPOS's community portal which is used for onboarding new restaurants, selling SambaPOS licences, and keeping in contact with distributors.

- Implemented the dashboard of the onboarding menu
- Implemented logging and control flow for app wide REST API calls with Redux-Saga

AUTONOMOUS DRIVING INTERN | VALEO JUN - SEP 2017

Embedded programming in C and test scripting in CAPL for autonomous vehicles. Worked on ultrasonic sensors for autonomous parking on Chrysler DT.

- Automated validation testing for ECUs with CAPL scripts
- Worked on diagnostic service (UDS) implementations
- Wrote a wrapper API for the VH1150 testing device and integrated it into the test flow

PROJECTS

ICLR REPRODUCIBILITY CHALLENGE | ICLR 2019

Acted as a volunteer inspector at the ICLR by reproducing research papers. Assisted peer reviewers by verifying the validity of paper results.

- Implemented the paper "Visual Explanation By Interpretation: Improving Visual Feedback Capabilities Of DNNs" from scratch and verified the findings of the authors.
- Submitted code and a report about our findings to help peer reviewers with their decision.

ROBOHACKS | MCGILL ROBOTICS

Co-founded RoboHacks, a robotics themed hackathon which took place on March 2016. RoboHacks had more than 150 participants. A member of Major League Hacking 2016, RoboHacks won the 2016 Forces Avenir Science Award for Best University Project in Quebec

- Contacted sponsors and managed logistics (equipment, venue, time tables...)