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PROJECTS

Compiler for a subset of Lua language

The goal of this project was to create a compiler for a statically typed subset of Lua language named Teal. The compiler was written in pure C language. The compiler was able to compile a subset of Lua language to a bytecode which was then interpreted by a virtual machine.

Calculator parser / interpreter

Goal of this project was to implement lexer, parser and interpreter for a mathematical calculator. The mathematical expression is represented as a string such as "1 + 1" was converted to syntax tree data structure and then processed by interpreter which returns the result.

Acoustic localization system

This is a final project at the school. The aim of this project was to locate clapping in space. It was necessary to connect various disciplines, such as: mathematics, physics, electronics, software development. Most of the software was written using Python and the Numpy, Scipy, PyAudio libraries.

Signal generator

This is a semester project, where we had the task to create a program for the ARM processor, which was to generate a selected function using a DA converter. The FreeRTOS operating system was used.

TECHNOLOGY SUMMARY

Programming	Python (Numpy, SciPy), Lua, JavaScript, TypeScript, PHP, Bash, C, C++, Assembly, Rust, VHDL, HTML, XML, CSS, SASS, Markdown, Latex
Software / Tools	MS Office, Adobe CC, Blender, Ansible, Git (GitLab, GitHub, BitBucket), Trello, Grafana, Docker, UML
Database	MySQL, MariaDB, SQLite, PostgreSQL, InfluxDB, Redis, SQLAlchemy, Diesel (Rust)
Frameworks	Nette, Vue, React, Next.js, Django, Angular

WORK EXPERIENCE

ERA a.s.

September 2021 – *Present*

I work with multiple teams using diverse languages and technologies. This has given me extensive knowledge and adaptability, allowing me to collaborate effectively, communicate technical information clearly, and troubleshoot efficiently. I am a versatile and skilled professional who delivers outstanding results.

ON Semiconductor

June 2021 – September 2021

I have been working as intern in international team (US). My job was to work on frontend for Self Service Portal using Angular framework.

EDUCATION

VSB Technical University of Ostrava

September 2022 – *Present*

Faculty of Information Technology.

Brno University of Technology

Faculty of Information Technology.

September 2020 – June 2022

Střední škola informatiky elektrotechniky a řemesel RpR.

Field of study is electronic data processing.

September 2015 – June 2020