Nicolas Theodor **Frey**

Profile

Passionate about developing software that lasts. Highly skilled in multiple programming languages and paradigms, mostly self-taught. Experienced in backend, frontend, mobile, games, and graphics programming. Quick learner with the ability to manage projects of various sizes and complexity (Diploma thesis, private projects). Proficient in automation (CI/CD in GitHub and Azure DevOps) and testing (TDD, unit, and integration) with a focus on writing readable, maintainable code. Linux enthusiast.

Contact details

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Personal information

Citizenship: **Austria**

Languages: **German** (native), **English** (C1)

Skills

- C++, C#, Java, Rust, PHP, JavaScript, ABAP
- .NET MAUI, Spring, Laravel, Vue
- Git, Docker, Kubernetes, CI/CD
- Windows, Linux (Debian/Arch)
- Bevy, Unity, Godot
- MySQL, MSSQL
- Communication and team collaboration/lead, Agile + Scrum

Experience

Compulsory Internship at *Cookis GmbH, Imst*   08.2024–present
◇ Hired for this internship directly after completing the first one due to strong performance and ability.
◇ Configured a Linux server with GPU-accelerated LLM processing for the company's new Bakehouse AI.
◇ Implemented a Laravel REST application layer for LLM translation for use in the Bakehouse CMS.
◇ Designed and developed a Vue frontend to interface with Bakehouse AI/translation.
◇ Wrote custom software to render static HTML documentation for Vue in-house components using JSDoc and an in-browser Vue compiler.

Compulsory Internship at *Cookis GmbH, Imst*   08.2023–09.2023
◇ Was offered a full-time job at the company after the internship due to good performance.
◇ Completed customer's data records using web scraping in PHP.
◇ Programmed a Vue webpage for the visualization of customer locations.
◇ Gained familiarity with the Typo3 CMS framework and in-house add-ons.

Education

Diploma in Computer Science | *IT-College, Imst*   2022–2024
◇ Specialized in Software Engineering.
◇ Thesis title: *Let's Drive: Development of an App for the L-17 License.*
◇ Gained proficiency in C/C++, Java, ABAP, PHP/JS/HTML/CSS. In-depth understanding of network technology concepts.

High School Diploma | *BORG/BRG, Landeck*   2018–2022
◇ Focus on Digital Arts and Computer Science.
◇ Matura (A-Levels) passed with excellence, 1.3 grade average.

Additional Education

CS107 – C++ Course | *Stanford University*   2024–present
◇ Advanced C++ programming and memory management.

Elements of AI Course | *University of Helsinki*   2023
◇ Machine Learning and Neural Networks.

Harvard CS50 Online Course | *Harvard University*   2022
◇ Introductory software development course.

Projects

Varcher   05.2024–present
◇ Solo project to learn the Vulkan API, multiple renderers, Open-Source on GitHub.
◇ C++, CMake, vcpkg, Vulkan, GLSL.

Let's Drive App   04.2023–present
◇ Team lead for an app for recording journeys during the L-17 driving license (part of the diploma thesis at IT-College, Imst).
◇ .NET MAUI, C#, Firebase API, Android and iOS Development.

Chess Engine   12.2022–06.2023
◇ A Java chess application with enemy AI, Open-Source on GitHub.
◇ Java, Swing.