Samuel Librelon Pinheiro Lopes

Montes Claros - MG - Brasil | librelondev@gmail.com | +55 (38)9 9880-8700

samuellibrelon.github.io/personal-page/ | linkedin.com/in/samuellibrelon | github.com/samuellibrelon

Education

Federal Institute of Education, Science and Technology of Northern Minas Gerais (IFNMG), BS in Computer Science — Mar 2023 – Dec 2027

- **Coursework:** Algorithm and Data Structure, Artificial Intelligence, Software Engineering, Database, Web Development

Experience

I.T - Intern, Plano de Saúde São Lucas – Montes Claros, MG — June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

Software Engineer Intern, Microsoft – Redmond, WA — June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Projects

BioSeqResearchTool — Link: BioSeqResearchTool

- A C program designed to analyze large viral nucleotide sequences and identify patterns across different string sizes. It also includes a menu for registering researchers and their projects, making it useful for organizing biological data and research in virology.
- Language Used: C

Synchronized Desktop Calendar — github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System — 2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Language Used: C

Technologies

Programming Languages: C++, C, Python, SQL, JavaScript, PHP

Technologies: Laravel, Oracle SQL Developer, Git, Linux, React, Power BI, MS Excel, Power Automate, MongoDB, Jupyter

Languages

- **Portuguese:** Native
- **English:** Limited work proficiency
- **Spanish:** Limited work proficiency