

Sean Alexandre

Software Developer

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GitHub: [stalexan](https://github.com/stalexan)

OBJECTIVE Freelance software development

TECH SKILLS **Primary Skills:** JavaScript, HTML, CSS, C, C++, C#, Docker, bash, Python
Secondary Skills: Git, SQL, Java, Apache, Nginx
Familiar With: Django, Bootstrap, Rust, Perl, awk, sed, lex, yacc

RELEVANT EXPERIENCE

2022 - 2023 **Personal projects for fun and learning**

- Wrote [weight-logger](#), a web app for tracking body weight, using **Docker**, **Linux**, **React**, **Nginx**, and **PostgreSQL**.
- Wrote [gomarkwiki](#), a command-line program to generate HTML from Markdown, using **Go**.
- Built [indy-switch](#), an **ESP32 IoT device** for turning a 120v switch off and on at sunrise and sunset, using **C** and **C++** and the ESP-IDF.
- Wrote [indy-mqtt](#), a command-line client for configuring and controlling an indy-switch using **MQTT**, in **Go**.

2002 - 2019 **Software Engineer** - SAS Institute. Cary, NC.

- Developed key parts of SAS Enterprise Guide, using **C#** and **WPF** for the UI, and **SAS** and **SQL** for working with data on the back-end.
- Developed Web OLAP Analyzer, a web app for viewing OLAP data in a web browser, using **C#**, **ASP.NET**, **HTML5**, **CSS**, and **JavaScript**.
- Prototyped integration of SAS Enterprise Guide with the SAS Viya cloud product, using **Java** and Spring based **RESTful web services**.
- Used **Git** to store source code.

2012 Wrote **Python** [netstat-monitor](#), a command line tool for monitoring network connections on a **Linux** machine.

2000 - 2001 **Software Engineer** - Clarify. Cary, NC.

Worked with a team of 9 developers on the commercially successful Clarify Configurator sales automation product, using Microsoft Visual **C++**, Visual Basic, and **SQL Server**.

1999 - 2000 **Software Engineer** - ICL Retail Systems. Wake Forest, NC.

Collaborated with 4 other developers on the development of the GlobalSTORE inventory control system, using Microsoft Visual **C++** and Microsoft **SQL Server**.

1995 - 1999 **Software Engineer** - Fujitsu Network Communications. Raleigh, NC.

Assisted with the development of major features and applications of a suite of applications for managing a network of Fetex-150 data switches. Developed a log browser application from initial requirements, through design, implementation, testing, and support. Work was done in **C++** on a Solaris **Unix** workstation.

1993 - 1995 **Software Engineer** - Nortel Networks. Research Triangle Park, NC.

Designed and implemented components of a system that managed the DMS-100 telephone switch, using **C++** on a HP-UX **Unix** workstation.

SOFT SKILLS Open-minded and easy to work with. Very organized. Strong ability to focus and do long periods of deep work.

EDUCATION **MS, Computer Engineering**, NC State University. Raleigh, NC.
BS, Electrical Engineering, Brigham Young University. Provo, UT.