Resume

Jan Piechowicz

Contact Information:

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Summary:

Experienced backend developer with a demonstrated history of success in the information technology and services industry. Skilled in GO, SQL, JavaScript, and a variety of programming languages. Strong engineering professional with excellent problem-solving and communication skills.

Experience:

Entrepreneur / Software Engineer, Profipoint

Nov 2017 - Present (7 years+)

- Participating in the creation and development of a purpose-built system for a new photo system for passports, in compliance with upcoming legal changes in Germany by May 2025.
  - This project is designed to meet specific requirements set by the BSI (Federal Office for Information Security), showcasing the ability to adapt to regulatory changes and technical specifications.
- Developed and maintained software applications using `Node.js` and `GO`
- Implemented and managed containerised environments using `Kubernetes` and `K3S`
- Performed system programming tasks as needed
- Built and repaired computer hardware, including 3D printers

Node.js Developer / DevOps di-support

Jan 2021 - Jan 2023 (3 years)

- Developed and maintained software applications using `Node.js` and `Go`
  - Converted user-space printer driver to native-node module (`C/C++`)
  - Rewrote some cloud services from `Node.js` to `GO` , resulting in support for ~5x more concurrent devices
  - Rewrote whole printer device stack from `Node.js` to `GO`

- IT system design
  - Re-evaluated and redesigned cloud part of the system, simplifying it and reducing ~33 microservices to ~6 services that do a little more as a unit but overall simplify and make the system easier to maintain. Changed underlying databases from `NoSQL` to `relational databases` where needed. Created database diagrams.
  - Redesigned printer device software from ~22 `Node.js` microservices running in `Docker` to 2 `GO` services and 1 `Node.js` running on device system, reducing update size from ~600MB to just ~50MB
- Implemented and managed containerised environments using `Kubernetes` and `K3S`
  - Moved current deployment system based on `Docker` and `Azure` to bare-metal with `K3S`, reducing cost of operation to 1/5 while being able to handle 3x more traffic
- Performed system programming tasks as needed

PHP Developer, Forum Media Polska Sp. z o.o.

Jun 2020 - Nov 2020 (6 months)

- Developed and maintained software applications using `PHP`
- Wrote SQL integration scripts
  - Created `Node.js` integration tool that pushes XMLs into the database based on file content, replacing manual process

Developer, Think Sp.z.o.o.

Apr 2017 - Apr 2020 (3 years 1 month)

- Developed and maintained software applications using `Node.js`, `JavaScript` (`Rhino`), and `C#`
  - I rewrote main application server from `Java` + `Rhino` to `Node.js`, including writing `native-addons` in `C/C++`, while keeping support for existing codebase. Server was able to support ~250 concurrent users on one instance instead of ~60 while running same code.
  - I have written and have optimised many SQL queries and TSQL routines for MsSQL, including a procedure for calculating and assigning tasks to be executed based on multiple variables including variable conditions in the warehouse.
- Performed system programming tasks as needed
  - Wrote few scripts like power shell converting files to UTF-8 from different encodings.

Skills:

1. Go (Programming Language)
2. SQL
3. JavaScript
4. Git
5. HTML5
6. C++

Education:

- DevOps postgraduate studies, 2022-2023
- Bachelor of Engineering in Computer Science, Collegium Da Vinci, 2017 - 2021
- Information Technology Technician, Zespół Szkół Komunikacji im. Hipolita Cegielskiego w Poznaniu, 2012 - 2016

Licenses & Certifications:

- E.12, E.13, E.14