Philipp Neumann

Senior Software Engineer

- 04 January 1992
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About me

Passionate about software development since the age of 10
Years of project experience in international teams, including abroad
Fluent in English, spoken and written

Skill

- C++
- Delphi
- Go
- C#
- Linux
- Git
- Docker

Summary

Senior Software Engineer with over 12 years of experience developing complex software solutions in the CAD/CAM and Design Automation space within an international team. Broad technical background spanning C++, C# and Delphi through to Go and Python. Experienced with containerization (Docker), Linux-based systems, Git workflows and cloud deployment on AWS. Proficient in API design, system integration and high-performance backend development. Additional solid knowledge in networking and system administration gained through contributing to network infrastructure at technology conferences.

Work Experience

2019 - 2026 — Senior Software Engineer — Autodesk

Design and development of a scalable backend application for receiving and distributing Design Automation jobs to containerized Fusion workloads (C#).
Led the introduction of TypeScript as an additional API language to extend the Design Automation platform.
Technical lead for the integration of the Google V8 Engine into Fusion, including building and maintaining a dedicated build and release pipeline.

2015 - 2019 — Software Engineer — Autodesk

Further development and maintenance of the Fusion CAM workspace with a focus on stability and performance.
Design and extension of the Fusion CAM API to support external automation.
Co-development of the Fusion 3D printing workspace.
Maintenance and further development of the existing Netfabb codebase (Free Pascal).

2014 - 2015 — Software Developer — Netfabb GmbH

Further development of the Netfabb codebase in the area of additive manufacturing, including introducing reporting based on Pentaho, developing software for automatically creating Netfabb installers using Inno Setup, and setting up automated Netfabb build pipelines with Jenkins.

2010 - 2014 — Working Student — mtd-systems

Re-implementation of a physiofeedback application in Delphi as part of a product modernization effort.
General administration and support of employee workstations and network infrastructure.

Education

2010-2014 — Bachelor of Science — OTH Regensburg
Computer Engineering

2008-2010 — University of Applied Sciences Entrance Qualification — FOS/BOS Schwandorf
Technical Track

Technologies

Languages: C++, C#, Go, Python, Delphi, Bash
Cloud & Infrastructure: Docker, AWS, Linux (Debian)
Tools & Concepts: Git, REST APIs, TypeScript, Build and Release Pipelines

Interests

Volunteer work in technically oriented communities (DARC Emergency Communications, Nerdberg e.V., Chaosvermittlung e.V., Chaos Computer Club), open-source development in Go, cycling, music, board work in non-profit associations, photography.