

Contact

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Top Skills

Data Engineering

SQL

Snowflake

Languages

English (Native or Bilingual)

German (Native or Bilingual)

French (Elementary)

Certifications

Getting Started with Go

Generative AI for Developers

Operationalizing LLMs on Azure

Microsoft Certified: Azure AI Fundamentals

Probability and Statistics: To p or not to p?

Alex Chilton

Senior Data / AI / Cloud Engineer @ Garaio | CAS in Advanced Machine Learning

Bern, Berne, Switzerland

Summary

I am a seasoned software professional with over 20 years of experience across a diverse range of languages, platforms, and roles. My career began with Java, transitioned to the .Net platform, and most recently, I have been working with Python. I have architected large SOA systems within the .Net and Microsoft stack, including BizTalk, and have utilized various database systems, including BI and big data with IoT. I am equally comfortable working on GUI or web systems.

My interests in AI and ML have driven me to pursue numerous courses through Microsoft and Coursera. I have also earned multiple Microsoft certifications in AI, data analytics, and Azure cloud.

Currently, I am developing NLP/transformer prototypes, integrating Instagram with OpenAI API projects, and undertaking a CAS in Advanced Machine Learning at the University of Bern. My strong statistical and analytical background, rooted in my theoretical physics degree from Edinburgh University, complements my technical skills. I am an active participant on Kaggle, the competitive AI platform, and believe that design patterns, unit testing, clean coding, and methodology are paramount, regardless of the technology stack. Throughout my career, I have progressed from a developer to roles such as architect, technical lead, technical manager, CTO, and mentor within the Berlin start-up scene.

I have a strong interest in AI, ML, MLOps and data in general and would consider roles in software, data or AI engineering or architecture

Experience

GARAIO AG

1 year

Data Engineer

April 2025 - Present (11 months)

Data Engineer at SBB

Data / AI / Cloud Engineer

March 2025 - Present (1 year)

Bern, Berne, Switzerland

Bundesamt für Informatik und Telekommunikation BIT

Senior Software Developer

October 2019 - April 2024 (4 years 7 months)

Bern

As a member of a small DevOps Scrum team, I contributed to developing various products for the Federal Statistical Office in Neuchâtel. I led the front end development of a Windows application using WPF and also worked on a web application. You can find the application description here:

<https://www.bfs.admin.ch/bfs/de/home/register/unternehmensregister/projekt-ber.html>

and here

<https://www.uid.admin.ch/>

c# development in all aspects, lead wpf dev.

Sql server optimisation, set up of always on system

CI / CD pipelines & Git

.net core asp.net apis and business logic

elastic search

entity framework

unit / integration tests

in charge of appium automated tests framework

SimplyVision GmbH

Senior Software Development Engineer

October 2019 - March 2024 (4 years 6 months)

Bern, Berne, Switzerland

Mandant was Unisys -> Bundesamt

SIS Laboratories Berlin

VR Consultant and general advisor / programmer

March 2017 - December 2023 (6 years 10 months)

Berlin

IOT, drone prototyping, Python programming and experimental AI / machine learning

Business Lab by SINGA
Mentor
December 2017 - December 2019 (2 years 1 month)
Berlin

Mentoring first time entrepreneurs in the startup scene, advice on startup formation, software architecture, funding, presentations, lean architecture etc.

ReDI School of Digital Integration
Teacher
August 2017 - December 2019 (2 years 5 months)
Berlin

Volunteer teacher by Redi, teaching Python, Java. Course and class preparation, Class presentations and teaching

GlobalOne Sciences
Consultant
March 2015 - December 2019 (4 years 10 months)
Consultant for Global One Services

<http://globalonesciences.com/>

Infindia Pvt Ltd
Co-founder
May 2013 - December 2019 (6 years 8 months)
Co-Founder at Infiindia Pvt. Ltd.

Co-founded Infiindia Pvt. Ltd., an offshore software company specializing in website, cloud and software development. Successfully executed various projects, gaining valuable experiences and having fun along the way. The company continues to thrive under a new name and strategy, led by pradeep kumar and others. We implemented projects for inf99, devinit and many prototype / Mvp projects

PPI AG
Senior Software Development Engineer
August 2018 - June 2019 (11 months)
Hamburg

During my time at PPI AG, a leading software service provider, I worked on a .NET-based project for an insurance firm. I architected and implemented backend search functionality using Oracle Text, designed to be swappable

with Elastic Search. Additionally, I handled bug fixing, refactoring, and optimization tasks.

InfiIndia UG

Co-Founder

May 2013 - February 2019 (5 years 10 months)

Berlin

Co-founded InfiIndia UG to coordinate with our Indian offshore company, InfiIndia Pvt. Ltd. We successfully executed various projects, gaining valuable experiences and having fun along the way. The company continues to thrive under a new name and strategy, led by Karsten Samaschke and others.

PSI Transcom GmbH

Algorithm Developer

September 2017 - December 2018 (1 year 4 months)

Berlin

I contributed to a sophisticated project involving complex algorithms to optimize disruption and rerouting software within a complex node mesh network, collaborating with a team of mathematicians. This software is extensively used within the Swiss and European rail networks.

Dussmann AG & Co. KGaA

Software Engineer

August 2017 - November 2017 (4 months)

Berlin

Dussmann faced a sudden developer departure, and I stepped in to maintain their software on short notice. I took over the maintenance of a Xamarin app, a large .NET code base, and reporting software. This role was challenging due to the lack of documentation and the absence of other developers, but it provided daily opportunities to tackle numerous bugs and interesting challenges.

Fly Exclusive Aviation Training

Founder and CTO

March 2017 - August 2017 (6 months)

Berlin

Investor, founder and IT set up. The founder continued the great start up work and continues to train people. Link can be found here:

<http://flight-attendant-school.com/>

ReCure
consulting
May 2017 - July 2017 (3 months)
Berlin Area, Germany

Consulting advise on Cloud and IoT communication and design. General coding for MVP and prototyping

Next Big Thing AG
Head of Software / Software Architect
November 2016 - May 2017 (7 months)
Berlin Area, Germany

At NBT, a start-up accelerator focusing on IoT and blockchain, I served as Head of Software. I built and led a team of developers to create prototypes for full-stack IoT development, cloud, web, integration, reporting, embedded, and device software. We utilized Azure IoT Event Hub and Functions, along with AWS Cloud for cloud functionality. Additionally, I advised and mentored startups on all aspects of software and project management.

Fujitsu
Data Migration Specialist
February 2016 - September 2016 (8 months)
Sydney

This was a specialised data migration for an ERP system with complex data structure with encrypted table names to a modern version of the same ERP system with different names. I had to reverse engineer the old and new db and build a migration script over 600 tables. Some reporting was involved also

DEViNIT GmbH
Director
November 2013 - April 2016 (2 years 6 months)

In my previous role as a founder of an IT-Consulting and Service firm specializing in business software, we leveraged our extensive experience with Microsoft technologies. As a Microsoft Silver Partner, we developed innovative software solutions using the Microsoft .NET Framework, SQL Server, Business Intelligence, and distributed systems with SOA or BizTalk. Our commitment to excellence and deep industry knowledge helped us deliver exceptional value to our clients.

CAT Financial Products AG
IT Architect
December 2013 - March 2016 (2 years 4 months)

Zürich Area, Switzerland

- Designed, implemented, tested, and supported a WPF trading platform for structured products.
- Developed a payment workflow system for customers and clients.
- Created WPF info screens detailing structured product pricing, status, events, and other properties.
- Built a reporting system to track the performance of all products and traders.
- Automated mailing for various events based on Bloomberg pricing and barrier events.
- Designed the database for the entire system.
- Supported and administered office and product systems.
- Ensured communication and synchronization between internal and web databases.
- Developed an MVC ASP.NET website for product information.
- Generated PDF reports based on Bloomberg data for the website.
- Communicated with the CEO and directors to define future releases and functionality.
- Implemented a pricing monitor to request and compare price estimates from other banks.
- Tools & Technologies: WPF, Entity Framework, IOC, MSSQL, Reporting Services, MVC, SOAP, Subversion, Web Services, MVVM, MSSQL Jobs

LFS Financial

Senior Software Engineer

September 2015 - February 2016 (6 months)

Berlin

Developer at LFS Consulting

At LFS Consulting, a microfinance banking service, google daughter company, specializing in third-world countries, I co-developed a new module for overdraft facilities in the core system. Key contributions include:

- Building a module with complex GUI elements.
- Implementing unit testing and a mocking framework to enhance code quality and maintainability.

bbv ICT Solutions AG

Senior Software Engineer

May 2013 - July 2014 (1 year 3 months)

Zürich

Mandant was WW Immo below

WW IMMO

Senior Software Engineer

April 2013 - June 2014 (1 year 3 months)

Zurich, Switzerland

- Created WPF custom component templates.
- Developed Codesmith generation code.
- Generated abstract commands and events.
- Advised on performance and best practices.
- Trained the customer's development team.
- Built complex WPF applications.

Tools & Technologies: TFS, WPF, Codesmith, Code reviews, Sybase

Lomosoft

SOA Specialist

January 2011 - March 2013 (2 years 3 months)

Software Architect, SOA Specialist, and .Net Senior Developer at Lomosoft

At Lomosoft, specializing in logistics tracking and monitoring software for the Oil and Gas industry, I worked on key projects for BP, including:

Global SAP Interface Development: Designed and built a global SAP interface using IDOCs and web services, integrating SAP with WinDMS.

GPS Tracking System: Defined and optimized the architecture of a Silverlight-based GPS viewer for tracking oil trucks and monitoring events.

OnBoard Computer Solution: Managed and architected the integration of the Oilpac solution using Xamarin for iPad, Android, and Windows Phone 8.

Legacy System Upgrade: Led the migration of Lomosoft software from VB6 to .NET, coordinating a team of 5 developers.

Samuelson

Technical Manager and Software Architect

June 2008 - May 2010 (2 years)

Berlin

Leading a team of 15 developers at Samuelson Kassensystem GmbH, specializing in cash register system software for bakery chains with clients like Rewe and Edeka. Key responsibilities include:

- Overseeing hardware and software architecture.

- Managing ERP system connections, data communication, and BI reporting.
- Implementing a new encrypted data transfer system using Microsoft Sync Framework.
- Developing monitoring software for data transfer.
- Building and optimizing reporting systems in .Net C# with MS SQL.
- Specifying architecture for complex order systems using Ajax, JQuery, and ASP.NET MVC.
- Prototyping BI projects with Cubeware, Silverlight, SSIS, and SSAS.
- Creating modular cash register systems with Microsoft CAB framework and Prism.
- Documenting and building interfaces for efficient data transfer.
- Coaching the development team and improving organizational processes.
- Setting up tools like Wiki, Bugzilla, SharePoint 2007, QS, Continuous Integration, and automated testing.
- Coordinating with customers and managing project delivery.

TD Computer Solutions GmbH & Co. KG

Software Architect

January 2008 - April 2008 (4 months)

Berlin, Germany

Senior Developer and Software Architect at TD-Solutions Berlin

At TD-Solutions Berlin, a market research firm venturing into in-house software development, I work primarily with Ruby on Rails, exploring its capabilities compared to C# and Java. Key project:

15talents for Die Zeit: Developing a Web 2.0 community platform to connect students with companies.

DVBN

Software Architect

December 2006 - October 2007 (11 months)

Berlin

At DVBN GmbH, I worked as a SOA and BizTalk specialist. I contributed to building a central, Germany-wide process to automate the bidding and finding of EU building and other contracts. My responsibilities included developing BizTalk modules to integrate with existing business logic, designing and building web services in C# for data exchange with partner companies, administering the BizTalk system, and organizing and running an automated test and deploy system using MSBuild and CruiseControl.

D-Trust

Software Architect

December 2005 - December 2006 (1 year 1 month)

Berlin

At D-Trust GmbH, a subsidiary of Bundesdruckerei and Germany's only accredited trust center, I worked as a software architect and developer. Specializing in encryption and digital signatures, I was responsible for building and migrating a large BizTalk system for signing, verifying, converting, and archiving digital invoices.

Deutsche Telekom / T - Systems

Software Developer

January 2000 - January 2005 (5 years 1 month)

During my time at T-Systems MMS, one of Germany's leading Internet and multimedia companies, I served as a lead programmer and architect. I worked on a large SOA enterprise project developing a .NET-based provisioning platform for Deutsche Telekom, handling services like web hosting, data hosting, and more. I played a key role in design, integration, and programming, collaborating with Microsoft consultants. Additionally, I led the integration of a massive multiplayer game for T-Online with Disney. My work also included projects with Intershop Enfinity, ePages, and various shop and portal projects using Java and Perl-based systems.

Education

University of Bath

Master of Science - MS, Artificial Intelligence · (March 2025)

University of Bern

CAS in NLP · (June 2025 - July 2026)

University of Bern

CAS in Advanced Machine Learning, Advanced Machine Learning · (August 2024 - July 2025)

The University of Edinburgh

Bachelor's degree, Theoretical and Mathematical Physics · (September 1991 - June 1995)

Monmouth Haberdashers School for Boys

