

Timothy W. Graf

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EXPERIENCE

Data Engineer

Panacea Financial · Westlake, OH / Remote · February 2024 – Present

- Built custom data pipelines using Python, Pandas, and Azure Functions, loading data into Snowflake
- Developed reporting and automation services using Python, Azure Functions, Azure Web Apps, and Microsoft Fabric data shares
- Conducted ad-hoc reporting and data analysis using Python, Pandas, Jupyter Notebooks, and supporting libraries
- Architected a medallion architecture data warehouse in Azure
- Engineered data pipelines to ingest source data into the data warehouse
- Integrated data services with SaaS platform tools
- Integrated AI capabilities via OpenAI APIs and Azure AI Foundry to build efficiency tools
- Designed a document extraction service for unstructured data using OpenAI APIs and Azure AI Foundry

Senior Software Solutions Architect

Summit Technology Consulting Group · Remote · July 2023 – February 2024

- Contributed to a loan origination platform using Python, Django, JavaScript, and Vue.js
- Guided front-end refactoring in Vue, decomposing large files into modular components following the single responsibility principle

VP, Financial Reporting & Full Stack Developer

Professional Bank · Westlake, OH · November 2020 – July 2023

- Contributed to an internal tools platform using TypeScript, React, and NestJS
- Built reporting automation using Python, Pandas, and NumPy
- Migrated Jupyter Notebook reporting pipelines to Azure Functions
- Designed and built a data warehouse in Azure, including data ingestion automation, data lake, and data pipelines
- Performed data analytics using Jupyter Notebooks
- Enriched internal data by integrating external APIs

Independent Software Consultant

Contractor · Redondo Beach, CA · August 2020 – November 2020

- Designed and developed RESTful services in a microservices and serverless architecture using .NET Core, C#, and AWS Lambda
- Automated CI/CD processes by integrating Azure Pipelines and GitHub using GitHub API Node scripts
- Enhanced service integration with Contentful CMS

Software Engineer Lead

Attainia · Scottsdale, AZ · April 2019 – July 2020

- Led a team of three full-stack developers across remote and on-site locations
- Coordinated production releases and provided deployment support
- Coached team members in setting and achieving professional and personal goals through regular one-on-one meetings
- Developed a React Native mobile application at a hackathon to demonstrate barcode-scanning product intake
- Led a two-developer project to upgrade Vue and Vuetify from v1.5 to v2.0
- Collaborated on rewriting the React front end in Vue.js
- Extracted, transformed, and loaded legacy catalog data into a new platform using PySpark and AWS Lambda

Senior Software Engineer

Carvana · Tempe, AZ · November 2018 – April 2019

- Strengthened supply chain management processes for the Carvana Supply Chain team
- Refactored and rewrote legacy services within the supply chain management system

- Documented supply chain services and vehicle-management processes across the system
- Built an application to add received vehicles to Carvana's inventory and initiate supply chain processing

Full Stack Engineer

Attainia · Scottsdale, AZ · July 2017 – November 2018

- Developed microservices using Python and Django REST Framework
- Designed RESTful APIs
- Implemented an OpenID Connect service using .NET Core and the OpenIddict library
- Built reusable components in React and Redux
- Developed ETL processes using AWS Glue and Lambda
- Created an internal tool for bulk uploading of catalog content

Software Architect

OpenTech Alliance · Phoenix, AZ · July 2016 – July 2017

- Integrated the company's StorageTreasuries.com acquisition, a PHP-based storage auctions platform
- Established a CI/CD pipeline using Jenkins and migrated the codebase to GitHub
- Implemented a pull-request-based development workflow with code reviews on GitHub
- Created a Docker container for local development, accelerating new-developer onboarding
- Introduced Jira and Confluence, and guided teams in adopting Scrum practices
- Led development of a RESTful access-control API for self-storage systems using .NET Core and C# in a microservices architecture
- Built a CI/CD pipeline to deploy microservices via Docker containers to AWS
- Led front-end development of a self-storage access-control SaaS portal using Angular 2, later upgraded to Angular 4

Platform Engineer

Nitro · San Francisco, CA · January 2016 – July 2016

- Developed backend RESTful services using Scala and Play
- Owned a transactional email notification service integrated with ExactTarget in Salesforce

Senior Software Engineer

Teachscape · San Francisco, CA · February 2014 – January 2016

- Developed mobile applications using Apache Cordova and AngularJS
- Built front-end interfaces using AngularJS and Bootstrap
- Developed backend RESTful services using Scala, Play, Spray, and Akka HTTP
- Created common abstractions for persistence, search, and CDNs using Slick, MySQL, Couchbase, Elasticsearch, AWS S3, and Limelight
- Managed CI and deployment pipelines using Jenkins and Ansible

Staff Software Engineer

Epicor Software Corporation · Dublin, CA · January 2005 – February 2014

- Developed front-end single-page applications using JavaScript and jQuery
- Built Java web applications using Struts, Servlets, JDBC, XSLT, and JSP
- Conducted load testing of web applications using The Grinder
- Integrated Endeca search engine into product applications
- Developed ETL processes using Talend
- Administered Oracle and MySQL databases
- Developed Java client applications using Swing, XML/RPC, and JNI
- Established a continuous build system using CruiseControl, ANT, and JUnit

Consultant

Accenture · Dallas, TX / San Francisco, CA · October 2000 – January 2005

- Developed batch applications using ANSI C on Unix
- Built web applications using Java and JSP

- Wrote automation scripts in Perl on Unix
- Configured networking infrastructure including VPNs and Cisco routers

Programmer

Loseke Technologies Inc. · The Colony, TX · September 1999 – October 2000

- Developed a desktop application using VisualBasic (GUI), FORTRAN, C, and C++ (backend libraries), and MS Access (persistence)
- Utilized AutoCAD C++ APIs for CAD integration
- Implemented a strength and stiffness model for steel panels based on empirical data

Engineer

Sino Swearingen Aircraft Co. · San Antonio, TX · June 1997 – September 1999

- Developed software to predict cruise and range performance for a business jet using MATLAB and a FORTRAN-based engine model
- Created tools to visualize engine inlet pressure and flight test data using MATLAB
- Performed data analysis for flight test, airspeed calibration, and wind tunnel tests
- Co-authored a technical paper published by the AIAA: "SJ30-2 High Performance Business Jet Development: A Prototype Based Approach"

EDUCATION

Bachelor of Science, Aerospace Engineering

The University of Texas at Austin · Austin, TX · 1997

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C#, Scala, C/C++, FORTRAN, MATLAB

Frameworks & Libraries: React, Vue.js, Angular, Django, NestJS, .NET Core, Node.js, Pandas, NumPy, PySpark

Cloud & Data: Azure (Functions, Web Apps, Data Factory, AI Foundry), AWS (Lambda, Glue, S3), Snowflake, Microsoft Fabric

Databases: Snowflake, MySQL, Oracle, Couchbase, Elasticsearch

Tools & Practices: Docker, Jenkins, GitHub, Jira, Confluence, Scrum, CI/CD