Vitaly Greck
Principal Software Engineer · Kent, Washington

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Engineering thoughtful, dependable software

Software engineer and technical leader with experience spanning real-time communications, distributed platforms, healthcare, security, and cloud services. Combines hands-on development with system design, mentoring, and cross-team delivery.

At Microsoft, has contributed to Skype for Business and Teams, including authentication and privacy improvements, service infrastructure, and highly available communications systems. Earlier work includes leading teams, designing web platforms, and developing embedded telecommunications software.

Areas of experience: Technical leadership · System architecture · Security & authentication · Distributed systems · Real-time communications

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Personal statement

I want to keep growing—and help create the conditions in which others can grow, too.

- **Keep learning.** A growth mindset means staying curious, learning from experience, and remaining open to new perspectives.
- **Put life before price.** Every life is precious and has no currency value. Human dignity and wellbeing should never be reduced to a measure of profit or success.
- **Make room for everyone.** Everyone deserves a fair opportunity to learn, contribute, and grow—in a safe environment protected from harm and discrimination.
- **Choose cooperation.** Competition is part of the world we live in, but collaboration and shared effort can take us further than separation and segregation.
- **Care for our shared home.** We should value the natural environment, its resources, and the people with whom we share it.
- **Protect what sustains life.** Nature and its resources are precious. If we cannot breathe clean air or eat, we cannot live; caring for our environment is essential.

Professional experience

Some engagements overlapped, as noted in the original resume.

Principal Software Engineer

Microsoft Corporation · October 2016 – Present

Skype for Business, Skype, and Microsoft Teams

- Modernized authentication and authorization across services, replacing legacy components with fail-safe designs and enabling multiprotocol identity integration, identity federation, and consistent access-control practices.
- Implemented secure-by-default service practices as part of a corporation-wide initiative to eliminate high-privilege access. Applied least privilege, service security, privacy compliance, monitoring, and security-review practices across eight services.
- Contributed to media-services modernization for real-time communications, designing and implementing highly available Teams call processing and forwarding with interoperability across services and platforms.
- Prepared service infrastructure for AI-ready integration by modernizing platform foundations, service interfaces, and distributed diagnostics to support reliable, scalable integration of new capabilities.
- Contributed to .NET Framework-to-.NET Core migration, Teams infrastructure, and server-to-server latency improvements across distributed services.
- Participated in on-call rotations and live-site incident response, troubleshooting production issues, coordinating service recovery, and following through on reliability improvements.
- Promoted maintainable engineering practices through design guidance, documentation, and thorough code reviews.

Lead Software Developer

XIM Inc. for Anomali Inc. · July 2016 – October 2016

Online network-activity analysis system

- Led improvements to system design, build, and deployment; developed log collection, service monitoring, recovery, failover, and fast-startup features.
- Reduced deployment time from 20 minutes to 5 with a GNU Make-based build and deployment process, and introduced continuous integration.

Lead Software Developer

XIM Inc. for Satellite Healthcare · February 2015 – June 2016

Medical application development

- Led and mentored a team of eight, contributing to application design, feature delivery, issue resolution, and deployment.
- Supported Scrum planning and estimation, an ITIL process migration, and work toward Electronic Health Record Meaningful Use Certification.

System Architect & Lead Software Developer

Zaochnik Inc. · September 2014 – February 2015

Student collaboration and tutoring platform

- Planned features with Scrum and developed online chat and real-time email notifications.

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- Reworked internal infrastructure, including a virtual-machine cluster, backup workflows, and networked proxies.

Chief Technical Officer

XIM Inc. / Infotechnology LLC · April 2010 – February 2015

- Led technical planning, resource allocation, reporting, project management, and engineering decisions.
- Architected and built cloud-based Python platforms and commercial web products; trained students in Java, C/C++, and Python development.

Senior Software Engineer

XIM Inc. / Infotechnology LLC · April 2007 – April 2010

Contributed to internal and client projects across web applications, enterprise systems, mobile software, and telecommunications.

Software Engineer

MPOVT JSC · August 2005 – April 2010

Developed software for telecommunications equipment, including switching engines, multiplexers, routers, embedded systems, and real-time billing.

Telecommunication Specialist

Military service · January 2006 – January 2007

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Projects

Local AI experiments and online resume

- **Local inference:** Used Ollama to experiment with deploying and running AI models locally, along with the tooling around local inference.
- **Models and tooling:** Explored models and developer resources on Hugging Face, including multimodal models and the Transformers library.
- **This resume:** Implemented the online resume entirely with GitHub Copilot, then gave it thorough human review. The PDF version is digitally signed, allowing its signature and integrity to be verified.

Skydive Toledo manifest system

Together with James Robinson, implemented a local manifest system with secure, limited read-only access from outside the site. It tracks active jumpers and shows the current load board and aircraft status. Project details

pi_registrar

Built a certificate-authenticated service for registering hosts' current IPv4 and IPv6 addresses, with optional DNS updates and a periodically running client. Project details

Winds and temperatures aloft display for Skydive Toledo

A dedicated display brings trusted weather updates to jumpers so they can check current conditions. Project details

EU Accounting

System Architect & Lead Software Developer · 2013 onward

Designed an online accounting and financial-reporting tool integrated with tax, customs, and banking authorities. Also integrated a Magento store with Authorize.Net and PayPal.

XSF social application platform

System Architect & Lead Software Developer · 2011–2015

Designed and built a high-availability Python platform for web and REST-based social applications, with shared web, storage, scheduling, caching, and persistence services.

HiBCN apartment-booking website

System Architect & Lead Software Developer · 2009–2015

Designed booking and checkout flows, payment options, administration tools, and automated notifications.

Automated order collection system

System Architect & Lead Software Developer · 2009–2010

Built a multi-user, highly available order-processing system with warehouse, accounting, and administration integrations; developed reliable transactional data access.

Telecommunications and embedded systems

Software Engineer · 2005–2010

Developed real-time IP, billing, and traffic-monitoring subsystems for telephone switches, embedded routers, and service stations.

More commercial and independent projects

- **Myadel utility billing system (2009–2011):** billing, payments, and PDF invoices for a municipal utility service.
- **Slide / Google social applications (2009–2010):** server-side features, banner systems, logging, and cross-application integration.
- **TurboCourt electronic filing:** court document-exchange features and automated build and deployment tools.

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- **Openwave and SoundHound projects:** Java testing and validation, Symbian C++ user interfaces, audio playback, and network connectivity.
- **Independent projects:** web portals and sites, a SHOUTcast statistics component, a network scanner, mobile-phone control software, and an SS7 MTP2 diploma project.

Technical skills

- **Languages:** C, C++, C#, Python, Java, JavaScript, PHP
- **Architecture:** Distributed and high-availability systems, service design, REST, real-time systems
- **Platforms & frameworks:** .NET, ASP.NET MVC, gevent, gunicorn, Java EE, IIS, Apache, nginx
- **Data & messaging:** SQL Server, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, SIP
- **Engineering practices:** Technical leadership, system design, mentoring, CI, deployment, code review

Education

Bachelor’s degree in Software Engineering

Belarusian State University of Informatics and Radioelectronics · 2000–2005

Faculty of Computer Systems and Networks

Certifications & awards

- FAA Private Pilot, Airplane Single-Engine Land (ASEL), instrument rating · 2021
- USPA Skydiving D License and Coach Rating · 2016
- FAA Senior Parachute Rigger, back and seat ratings · 2011
- MongoDB for Developers (M101), 100% pass · 2012
- MongoDB for DBAs (M102), 100% pass · 2012
- Brainbench Unix Administration (General) · 2012
- Brainbench Networking · 2013

Interests

Aviation, parachuting and skydiving, parachute rigging, fitness, and electronic music.

Home improvement

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Issuer	CN=Vitaly Greck
Serial number	4D23A6CE93C5D252A411C4682E46FE47CF38BCD6
Valid from	2026-11-12 22:13:05 UTC
Valid until	2046-11-12 22:13:05 UTC
SHA-256 fingerprint	e3e239cd68b471c0970af9f07c7401c915a90132eb308b701795858184535ba2

The certificate public key is available at https://www.vitaly-greck.us/.well-known/pki/pub .

Validate this PDF signature with standard PDF signature tools, such as `pdfsig` or Adobe Acrobat Reader.

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