

Val Tenyotkin

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San Francisco, CA

Self-sufficient software engineer and leader with over a decade of experience and a strong background in Physics. Highly skilled in distributed cloud architecture, Python, C/C++, data pipelines and analysis. Persistent mentor and team-builder. Always seeking new challenges and excited for opportunities to create unique products and lead multidisciplinary teams.

Ph.D. Physics

UNC Chapel Hill, 2009

M.S. Physics

UNC Chapel Hill, 2004

B.S. Physics

*U of Central Florida, 2001
Optics & Lasers
Mathematics Minor*

SKILLS

AWS, Cloud Architecture,
ETL pipelines, Python,
Linux, CI/CD, Shell
Scripting, Go, C/C++, SQL,
Redis, MatLab,
Mathematica, Maple,
LabVIEW

CERTIFICATIONS

USA Weightlifting Level 2
CrossFit Level 2 Trainer

LANGUAGES

English
Russian

Head of Software

Sep 2021 - Present

- Led a team of FTE and contract embedded, web, mobile, and back end engineers.
- Oversaw the creation of Roam Exoskeleton Ecosystem comprised of tools for hardware, software, controls engineers, sales, marketing, compliance, and the end users.
- Responsible for the direction of the software team and all software on and off the exoskeletons.
- Overhauled legacy organization structure and policies to better delineate responsibilities within the software team and increase efficiency.

Roam Robotics

Senior Data Engineer

Nov 2019 - Sep 2021

- Designed and implemented from the ground up OTA, bi-directional data pipeline from Roam's Exoskeletons to the Cloud; including but not limited to: remote updates, log extraction, diagnosis, data analysis, embedded code, and cloud architecture.
- Built AWS infrastructure, distributed/parallel data processing engine, exoskeleton credentialing and authentication system.
- Actively hired and grew the team from one to ten.

Principal Software Engineer

Sep 2016 - Nov 2019

- Developed database architecture and marketing/analytics data pipeline.
- Oversaw data security: PII protection, compliance, data handling policy.
- Built an SIS integration/ingestion engine/ETL from scratch.

Kiddom

Senior Software Engineer

Aug 2015 - Jul 2016

- iTunes U back end engineering and systems architecture. Rewrote and incorporated LearnSprout's technology into Apple's stack.

Apple

Senior Software Engineer

Jun 2014 - Jul 2015

- Full stack development of a data ingestion and advanced analytics platform for K-12.
- Led the migration of services from AWS Classic to AWS VPC.
- Designed, developed, and implemented an ingestion failure reporting system monitoring data flow irregularities from hundreds of schools.
- Developed a MySQL maintenance framework to streamline the provisioning of hundreds of databases allowing for physical and logical separation of customer data.
- Conducted Data Science research and created analysis prototypes.

LearnSprout (acquired by Apple)

Co-Founder, CTO

Sep 2013 - Jun 2014

- Developed a complete back end stack for video upload, processing, and delivery consisting of AWS infrastructure and a custom LAMP framework.
- Led a team of UI/UX and front end engineers.

SprkTV

Senior Software Engineer

Cisco

Jan 2012 - Sep 2013

- Developed switch control APIs, output parsing software, and test tracking/aggregation.
- Performed manual and automated testing of the Nexus 3K platform.
- Led "best practices" workshops to standardize coding patterns and reduce bugs.

Application Developer

WebAssign

Oct 2009 - Aug 2011

- Development lead of the Personal Learning Plan (PSP) component and back end website.
- Developed an intelligent image cache pre-population process to increase image deliverability, a graphing protocol, algebra pre-processing and parsing algorithms.
- Devised and participated in white hat activities.

Chief IT Officer

UNC Chapel Hill Student Congress

Jan 2012 - Sep 2013

- Coordinated the IT infrastructure of the Legislative and the Executive branches.
- Developed and administered web-based accounting; testing and certification.
- Served as a technical advisor to the Student Congress and the Student Body Secretary.

NOTABLE INVOLVEMENTS

Coach

2016-2018

- Coached Weightlifting, CrossFit, wellness, and nutrition.

Founder

OwlScript

Jan 2014 - Jul 2014

- Developed a simplified scripting language/environment along with a web interface thereto. OwlScript is a learning tool for young computer scientists. www.owlscrip.org

Volunteer Instructor

Renaissance Academy Middle School

Aug 2013 -May 2014

- Proposed, developed, and taught a middle school computer science and programming class. Tutored mathematics and science

Chair

Student Congress Finance Committee

Apr 2006 -Apr 2007

- The committee is responsible for reviewing funding requests from student groups and allocating funds from an annual budget of ~ \$500,000.
- Streamlined funding request and evaluation procedure resulting in marked decrease in processing time.