Vladimir **Loskutov**

FULL STACK ENGINEER

Germantown, Maryland, 20874

✉ vladimir@enginerd.io | ⌂ enginerd.io | ⬡ en9inerd | in vloskutov

Summary

- Senior Full Stack Developer with 10+ years of professional experience across software and infrastructure engineering, delivering scalable, production-grade applications with a strong back-end focus
- Expert in Angular, NestJS, LoopBack, and Express.js; proficient in Python and cloud-native development using AWS
- Skilled in designing microservices, data pipelines, and API integrations, particularly for data-heavy and research-oriented systems
- Proven ability to optimize performance, automate infrastructure, and drive team success through collaboration and technical leadership

Skills

Programming Languages	JavaScript/TypeScript, Python, C, Bash
Frameworks	Angular, NestJS, LoopBack, Express.js, FastAPI, Django
Databases & Caching	MongoDB, PostgreSQL/Redshift, MySQL, Redis, SQLite
Web & Markup	HTML, CSS, Tera, Liquid, XML
Cloud & DevOps	AWS (EKS, EC2, S3, RDS, Lambda, etc.), Docker, Git, GitHub Actions, Helm
Tools & Other Tech	Neovim, Zola, Jekyll, LaTeX

Work Experience

Axle Informatics — *Rockville, MD*

SENIOR FULL STACK DEVELOPER — *Jan 2023 - Present*

- Contributing to migration of JSP/Tomcat-based application to modular Angular frontend integrated with Strapi CMS for content management and FastAPI backend for data services
- Developed Angular application for lab sample data management with dynamic, hierarchy-driven views powered by OMERO data and metadata from annotations, leveraging reusable component library built in previous project
- Integrated Angular application with custom OMERO import API built with NestJS, enabling ingestion of microscopy images from private directories into OMERO repository
- Built FastAPI microservice using OMERO BlitzGateway to query image data by metadata (map annotations) and access OMERO database content not available via official API
- Containerized applications and implemented CI/CD workflows with GitHub Actions; deployed to Amazon EKS using Helm for scalable delivery

SOFTWARE DEVELOPER — *Feb 2020 - Jan 2023*

- Built NestJS API wrapper around OMERO API and CLI to transform OMERO objects into internal entities and enable automated import of microscopy images from private directories into OMERO central repository
- Enhanced NestJS-based microscopy image import and processing pipeline using BullMQ for task orchestration and Redis for caching, improving performance and reliability
- Designed and implemented reusable Angular library for lab sample data management, featuring metadata-driven hierarchical views, multiple layout options, and flexible grouping
- Developed RESTful APIs using LoopBack framework and internal libraries to manage tree-based lab sample data with configurable hierarchies and both role-based and user-based access control
- Re-engineered Node.js CLI application using oclif framework to replace Authorization Code Flow with Client Credentials Flow and implement new client-requested features for processing 2D/3D microscopy data
- Contributed to modernizing legacy Angular and Node.js applications by enabling support for multiple databases (SharePoint, MySQL) using LoopBack and its Juggler ORM; updated Angular components and built REST APIs to meet client requirements

Burson Cohn & Wolfe — *Washington, DC*

SOFTWARE ENGINEER — *Jul 2019 - Feb 2020*

- Developed serverless application using AWS Lambda (Node.js), API Gateway, Cognito, and S3 with JavaScript front-end to collect and manage media-related data stored in DynamoDB
- Built Python library for use in AWS Glue to ingest and enrich records with external data from NewsWhip and SimilarWeb APIs
- Generated structured datasets in S3 and exposed them through AWS Glue Data Catalog, enabling downstream analysis via Amazon Athena
- Supported report generation for business analysts by automating media coverage and web traffic trend analysis through SQL queries and Athena dashboards

PYTHON DEVOPS DEVELOPER   *May 2017 - Jul 2019*

· Developed and maintained social intelligence analytics platform using Django, PostgreSQL (Redshift), and social media APIs (Facebook, Twitter)
· Automated data processing workflows on AWS using Python and Boto3, improving reliability and reducing manual intervention
· Redesigned and maintained data warehouse pipelines using Amazon Redshift, improving performance and scalability for large-scale analytics
· Significantly reduced AWS Redshift operational costs through query optimization and architectural adjustments
· Containerized monolithic application with Docker to transition to microservices architecture, enhancing scalability and deployment speed
· Developed and supported high-impact Redshift reports that generated hundreds of thousands of dollars in annual revenue

Verifeed LLC   *Washington, DC*

SOFTWARE ENGINEERING INTERN   *Sep - Dec 2016*

· Built and maintained Django-based web applications for social intelligence analytics, using Bootstrap for front-end components
· Developed automated tools for data reporting and visualization with Django, PostgreSQL, and Git

Angstrem-Telecom   *Moscow, Russia*

JUNIOR NETWORK ENGINEER   *Sep 2014 - May 2015*

· Tested and debugged embedded OpenWrt-based network devices using Bash scripts, iptables, and low-level diagnostics (JTAG, serial console)
· Modified C-based utilities for Wi-Fi chip control, with source tracked in Git repositories
· Improved web interfaces for device configuration using HTML, CSS, and JavaScript
· Authored technical documentation to support QA and deployment processes

Ltd. QDGroup   *Moscow, Russia*

TECHNICAL SPECIALIST   *Jul 2011 - Aug 2014*

· Managed office network infrastructure, Windows/*nix servers, and network hardware to ensure operational continuity
· Performed low-level device debugging and firmware updates using RS-232/RS-485 protocols; supported hardware debricking and recovery
· Installed and maintained Apollo Security APACS systems, including controller configuration and firmware maintenance
· Administered PBX systems and Asterisk software to support internal communications

Personal Projects ───────────────────────────────────

TeleBuilder   *🔗 GitHub Repo*

TELEGRAM API, TYPESCRIPT, GRAMJS   *Jul 2022 — Present*

Simple command message-centric Telegram bot framework, acting as an additional abstraction layer built on top of GramJS

TgEraser   *🔗 GitHub Repo*

PYTHON, TELEGRAM API, TELETHON   *March 2019*

CLI tool to delete all user messages from chats, channels, or conversations on Telegram without requiring admin privileges

PlacerSA   *🔗 GitHub Repo*

C/C++, STL, GLUT, BATCH SCRIPTING   *Nov 2014 — May 2015*

Tool for standard cell placement (global and detailed) based on modified "simulated annealing" algorithm for VLSI and FPGA design flows

Education ───────────────────────────────────────

National Research University of Electronic Technology   *Moscow, Russia*

MASTER OF SCIENCE DEGREE IN COMPUTER SCIENCE AND ENGINEERING   *2015*

National Research University of Electronic Technology   *Moscow, Russia*

BACHELOR OF SCIENCE DEGREE IN ELECTRONICS AND MICROELECTRONICS   *2013*