

# Vladimir Loskutov

FULL STACK ENGINEER

Germantown, Maryland, 20874

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## Summary

- Experienced Full Stack Developer with expertise in Angular, NestJS, LoopBack, and Express.js, adept at integrating diverse data sources into seamless systems
- Proficient in Python and experienced in developing and maintaining software within AWS-based data warehouse infrastructure
- Experienced in building robust microscopy image processing pipelines, implementing API wrappers, and developing Angular components for efficient lab samples data management
- Proven track record of optimizing applications, automating processes, and contributing to the success of projects through effective collaboration and innovative problem-solving

## Skills

<b>Programming Languages</b>	JavaScript/TypeScript, Python, C/C++, Bash
<b>Frameworks</b>	Angular, NestJS, LoopBack, Express.js, FastAPI, Django
<b>Databases</b>	MongoDB, PostgreSQL, MySQL, Redis, SQLite
<b>Web</b>	HTML, CSS, Liquid, XML
<b>AWS Services</b>	EC2, S3, DynamoDB, RDS, Redshift, VPC, IAM, ElastiCache, Lambda, Parameter Store
<b>Miscellaneous</b>	Git, Docker, Jekyll, LaTeX

## Work Experience

### Axle Informatics

Rockville, MD

SENIOR FULL STACK DEVELOPER

Feb 2020 - Present

- Developed a robust microscopy image import and processing pipeline in a NestJS application, utilizing BullMQ for task queuing and Redis for caching
- Implemented a NestJS API wrapper around OMERO API and OMERO CLI, facilitating the transformation of OMERO objects into internal project entities and enabling the seamless upload of microscopy images from private directories to the OMERO central repository
- Developed Angular components responsible for lab samples data management and which provide different layouts for tree representation and data grouping by different properties
- Built API with NestJS framework to operate with tree-based lab samples data structure, it provides ability to use different hierarchies (level sets), and it has role-based and user-based access control
- Re-implemented Node.js CLI app with oclif framework that processes 2d and 3d Electron Microscopy data to provide Client Credentials Flow instead of Authorization Code Flow and brings new client requested features
- Participated in upgrading legacy Angular app and back-end Node.js app: adaptation for supporting multiple databases (SharePoint and MySQL) through LoopBack Juggler; Angular components re-implementation according to client's requirements; REST API implementation with LoopBack framework

### Burson Cohn & Wolfe

Washington, DC

SOFTWARE ENGINEER

Jul 2019 - Feb 2020

- Developed serverless app based on AWS Lambda (Node.js back-end), AWS Cognito, AWS API Gateway, AWS S3 (JavaScript front-end) to manage and collect records in DynamoDB for further data extraction and analysis by using AWS Glue and Amazon Athena
- Implemented Python package to work with NewsWhip and SimilarWeb APIs. Implemented report using this Python package to do NewsWhip and SimilarWeb data analysis

### Burson Cohn & Wolfe

Washington, DC

PYTHON DEVOPS DEVELOPER

May 2017 - Jul 2019

- Software development and maintenance that was oriented on social intelligence analytic using Django, PostgreSQL (Redshift), Facebook and Twitter API
- Automated AWS, including Automating Big Data processing with Python and Boto3
- Data Warehousing based on Amazon Redshift
- Reduced company's monthly bill for Redshift dramatically
- Built and deployed Docker containers to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed
- Supported and developed a Redshift report that generates hundreds of thousands of dollars of revenue per year
- Practiced Scrum development methodology and Test Driven Development

## Verifeed LLC

SOFTWARE ENGINEERING INTERN

- Developed and maintained software for social intelligence analytics using Django and Bootstrap
- Created and maintained tools for report generation using Django, PostgreSQL, and Git
- Practiced Agile Development and Test-Driven Development methodologies

Washington, DC

Sep - Dec 2016

## Angstrom-Telecom

JUNIOR NETWORK ENGINEER

- Tested embedded network devices (SoC RTL89xxC) running OpenWrt using self-written Bash scripts and iptables
- Identified and fixed bugs in C/C++ codebase, maintained using Git
- Worked with RTL8188C/8188CU/8188CUS, RT8192C/8192CU Wi-Fi chips, RS-232 interface, and U-Boot bootloader
- Debricked network devices through JTAG, Serial console
- Enhanced web interfaces using HTML, CSS, and JavaScript
- Prepared technical documentation for network equipment using MS Office

Moscow, Russia

Sep 2014 - May 2015

## Ltd. QDGroup

TECHNICAL SPECIALIST

- Maintained local office network and set up office software and equipment
- Configured and managed Windows and \*nix servers, and network hardware
- Utilized RS-232 and RS-485 protocols for debugging, debricking, and firmware updates of network devices
- Installed and maintained Apollo Security's Access Control and Alarm Monitoring System (APACS); handled firmware updates and controller configurations
- Configured and managed PBX hardware and Asterisk PBX software

Moscow, Russia

Jul 2011 - Aug 2014

## Personal Projects

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### TeleBuilder

TELEGRAM API, TYPESCRIPT, GRAMJS

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

[GitHub Repo](#)

Jul 2022 — Present

### Gromozeka Bot

TELEGRAM API, TYPESCRIPT, GRAMJS, TELEBUILDER

Bot to assist the user in deleting all of their messages from chat, channel, or conversation on Telegram without requiring admin privileges

[GitHub Repo](#)

Jul 2022 — Nov 2023

### TgEraser

PYTHON, TELEGRAM API, TELETHON

CLI tool to delete all user's messages from chat, channel, or conversation on Telegram without requiring admin privileges

[GitHub Repo](#)

March 2019

### PlacerSA

C/C++, STL, GLUT, BATCH SCRIPTING

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

[GitHub Repo](#)

Nov 2014 — May 2015

## Education

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### National Research University of Electronic Technology

MASTER OF SCIENCE DEGREE IN COMPUTER SCIENCE AND ENGINEERING

Moscow, Russia

2015

### National Research University of Electronic Technology

BACHELOR OF SCIENCE DEGREE IN ELECTRONICS AND MICROELECTRONICS

Moscow, Russia

2013