Grishin Anton — Backend Developer

Personal Information

Grishin Anton
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About me

I am a former professional volleyball player, I graduated from the Olympic reserve sports school. I also graduated from the engineering class at school.

Skills

Python: FastAPI, Flask, SqlAlchemy, python-telegram-bot, faststream, numpy, pandas.

Go FastAPI, Flask, SqlAlchemy, python-telegram-bot, faststream, numpy, pandas.

Databases Postgres, sqlite, Redis, S3(Yandex Object Storage).

Message brokers: RebbitMQ, Kafka, Mosquitto.

Other techonologies: SQL, Java, JavaScript, Rust, Latex, Go.

Scientific softwares Comsys, Maple, Matlab, Mathematica, Scilab, Keysight's VEE and ADS, NI LabVIEW.

Dev tools: Neovim, Docker, docker-compose, docker-swarm, CI/CD(Github actions, GitLab actions)

Languages: Russian, English.

Education

Central University - Mathematics and Computer Science, 2028

Certifications

Yandex Lyceum. I was externally admitted directly into the second year of the Yandex Academy Lyceum's Industrial Development course. I earned a honors certificate and achieved a perfect score of 100/100 on the final project.

September 2022 - April 2023

Achievements

Qualified for the finals of the Russian Competitive Programming Championship, where our team designed a microservice architecture for a web app aggregating sports events across Russia (tech stack: RabbitMQ (FastStream), FastAPI, React, Kafka, OAuth) and developed an algorithm for processing and validating annual government reports on sports events.

November 2024

Participated in the Nuclear IT Hackathon, where my team and I worked on a Rosatom case to develop a service for determining the emotional tone of online meeting statements. I created prototypes and implemented the frontend on React, while my team trained the model.

April 2024

I won the Science for Life scientific-practical conference with a smart home project for private and public educational institutions (tech stack: Redis, Zigbee2MQTT, websockets, Go, Python, Flask, React).

June 2024

Interestings

Philosophy Unix, Linux and Windows

Books: Unix, Linux and Windows

History

Measurement Engineer (CNRS) XLIM *June 2016-Present*

Lecturer University of Colorado, Boulder *January 2016-May 2016*
ECEN 5014-003, "Microwave Measurements and Calibration Fundamentals"

Research Associate University of Colorado at Boulder *June 2013-May 2016*
Achievements:
- LabVIEW software for a "Do-it-yourself" Large-Signal Network Analyzer (LSNA)
- Time domain measurement setup in Scilab (VTD-SWAP)
- Outphasing PA characterizations
- Load-pull in time-domain

Measurement Engineer (CNRS) XLIM *December 2007-May 2013*
Achievements:
- Korrigan European Project activities (RTP N°102.052 funded within the EUROPA framework in the CEPA2 priority area - ends early 2009) : GaN HEMTs circuits level modeling from european foundries (Thales / QinetiQ) for HPA, LNA and Switches
- Time domain measurement setup (LSNA) development on Scilab-TCL/TK (GUI, calibration and measurement automation)
- Development of HEMTs modeling tools (Scilab)
- Contractual measurements such as load-pull, linearity, high impedance probe in both frequency (VNA) and time domain (LSNA)

Research Associate - Visiting Scholar University of Colorado at Boulder *February 2012-July 2012*
GaN HEMTs based rectifiers characterizations and analysis

Research Engineer (CNRS) XLIM *May 2005-November 2007*
Achievements:
- Frequency domain load-pull measurement setup (VNA in receiver mode with pulse capabilities) developpemnt with Scilab (calibration procedures, measurement automation, data processing)
- Large signal caracterization of transistor (mainly european GaN in the framework of Korrigan
- Korrigan WP3.3 workpackage leader in Korrigan. Developpement of a internet database (Php / mySQL) to let partners share data and informations
- GaN HEMTs "spice-like" nonlinear models

Research Engineer NMDG Engineering bvba *November 2004-February 2005*
Implementation of the High Impedance Probe module (calibration and measurements) in the commercial LSNA Software (based on Mathematica)

Postdoctoral scientist CNES (French Space Agency) *October 2003-September 2004*
Development of characterization tools interfaces within the free open-source scientific package Scilab

Postdoctoral scientist CNES (French Space Agency) *October 2002-September 2003*
Achievements:
- Large Signal Network Analysis (LSNA) characterizations in time-domain
- Development of a new LSNA module in order to investigate time domain waveforms at internal nodes of MMICs with high impedance probes (HIP) to validate circuits designs and to analyze nonlinear parametric stability
- Large Signal Network Analysis (LSNA) characterizations in time-domain

Researcher IRCOM / University of Limoges *October 1998-September 2002*
Achievements:
- Development of the RF time-domain envelope measurement setup (hardware and software)
- Development of the calibration procedure of the time-domain envelope measurement setup
- Power amplifiers characterizations : Load-pull, IM3, NPR
- Behavioral modeling of nonlinear devices with memory effects for system level
- Development of a dynamic complex gain model with neural networks

Lecturer University of Limoges *October 1998-September 2002*
RF devices, analog/digital communication systems, signal processing, propagation waves...

Postgraduate student IRCOM / University of Limoges *February 1998-July 1998*
Circuits level simulations of IM3 and NPR in order to optimize the trade-off between linearity and efficiency