# ALEXEI KHACHATRIAN

## SENIOR SOFTWARE DEVELOPMENT ENGINEER

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stackoverflow.com/users/8913631

Officially Laravel Certified Lead Software Development Engineer since 2016, adept in distributed team management, risk planning, and database design. Skilled in PHP (Laravel), JavaScript (NodeJS), Python (Django, Flask), and Bash, with strong proficiency in AWS services, project management, and a passion for open-source contributions, Linux, and cybersecurity. Currently pursuing a PhD in Computer Science (expected 2027). Experienced in embedded systems and embedded C/C++ development, working on low-level programming and hardware integration.

# PROFESSIONAL EXPERIENCE

### PhD Researcher
Bioinformatics Group
March 2025 - Present | Full-time

Working at the intersection of Computer Science and Bioinformatics to develop automation tools and computational systems for molecular and protein analysis.

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### Senior Software Development Engineer
NGA - Next Generation Advanced
Dec 2023 - Present | Full-time

Creating automation software for emergency services used by many countries, mostly by US

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### Open-Source Contributor
khachatryan.dev
Apr 2017 - Present | Self-employed

Active contributor to open-source projects, creating new libraries and packages while also improving existing projects. Engages in embedded development for ESP32, building open-source solutions for real-time communication, IoT, and low-level hardware interactions. Contributions can be found at: GitHub Profile

### Freelancer
khachatryan.dev
Apr 2017 - Aug 2020 | Freelance

Led a remote backend team across multiple countries for an Israeli-American e-commerce project, serving as the lead developer. Worked with clients from Spain, Russia, Ukraine, Armenia, and Israel.

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### Python Developer
Wildbox.ru
Mar 2023 - Dec 2023 | Full-time

Working on a platform, which provides analytics for wildberries customers. Developing new features, working with 2PT(petabyte) PostgreSQL database.

### Lead Software Development Engineer
Akvelon, Inc.
Mar 2022 - Mar 2023 | Full-time

Leading a team of developers working on an information security provider SaaS B2B product. One-week sprints, stands-ups with a team and a client, code reviews, CI/CD. Complex work with Azure, GCP and AWS.

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### Senior Software Development Engineer
2amigos Consulting Group
Aug 2020 - Mar 2022 | Full-time

Working on multiple projects with different teams, with different stacks. Interaction with DevOps-engineers, front-end developers, testers. Development of financial, messengers, accounting projects.
Participation in a hackathon.

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### Lead Software Development Engineer
iNexxus
Oct 2017 - Mar 2020 | Full-time

Web platform development based on Laravel. Supporting two dedicated Linux CENTOS servers, 50 WordPress websites, client websites, volunteer websites. Working with the development team, helping, supporting and leading the programming team. Joint solution of common problems.
Exploit testing of our servers, penetration testing of our/client websites.

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### Web developer
Web Foundation
Aug 2016 - Apr 2017 | Full-time

Working on projects based on: WordPress, Woocommerce, Codeigniter, CakePHP, Magento1.9, Magento2.0, Custom PHP and JS.

## **Web Developer**

Ayrosa | Digital Marketing & Advertising Agency
Jun 2016 - Aug 2016 | Full-time

Backend, Frontend Developer, Server and Hosting
Specialist
Development on the PHP framework Yii2 of a personal
account for users of an online store on SimplaCMS

# SKILLS SUMMARY

**Languages And Frameworks**

PHP(Laravel), JavaScript (NodeJS), Python(Django, Flask), Bash, espressif

**Project Management & Leading Teams**

Distributed team leading, requirement analysis, tasks decomposition, estimation and assignment, risk planning, team forming, talent acquisition, technical design development

**Technologies**

SocketIO, ElasticSearch and Kibana, Redis, REST API, JSON API, Selenium, Microservices.

**DBMS**

PostgreSQL, MySQL, SQLite, MongoDB, DynamoDB

**AWS**

S3, Route53, CloudFront, Cognito, Elastic Beanstalk, CodePipeline, CodeDeploy, CodeBuild, Cloud Watch, EC2, SES, SNS, SQS, IAM, RDS, DynamoDB

**IDEs and Tools**

JetBrains (PhpStorm, WebStorm, PyCharm, Data Grip, YouTrack), Git, Postman, OpenAPI, TOR Proxy Network, GitLab, GitHub, Atlassian

**Operating Systems**

Ubuntu Desktop, Ubuntu Server, Centos 7, Raspbian, Kali Linux

**APIs**

FB, IG, LI, X(Twitter), Twilio, AWS, Stripe, PayPal, GCP, Soundcloud, Spotify, Plaid, Mailgun, Wikipedia, Slack, etc

**Embedded Systems**

C/C++, espressif framework, ESP32 boards, ESP-NOW, ESP-MESH, LoRa, LoRaWAN, client-to-server & server-to-client & p2p communication

# EDUCATION

**Bachelor's Degree in Computer Science**
European University of Armenia
Faculty of Applied Programming
2011 - 2017

**Master's Degree in Computer Science**
European University of Armenia
Faculty of Information Technologies
2021 - 2023

**PhD in Computer Science**
European University of Armenia
Software Automation
2024 - 2027

# CERTIFICATIONS

**Laravel Certified Developer**

Issuer: Laravel.com

Issued: Aug 2021

**Top 10% World**

Issuer: TestDome

Issued: Jan 2018

# HOBBIES

In my free time, my biggest passion is open-source development and coding for fun. I've built Selenium bots that mimic real user behavior on platforms like YouTube and Instagram. I'm also a cryptocurrency enthusiast—mining on my farm, trading with Python bots, and staking coins. I enjoy swimming, going to the gym, and playing football and chess. I also like computer games (CS and C&C Generals) and enjoy reading detective novels. My favorite writter is Agatha Christie.