

Dian Kalaydzhiev

Full Stack Software Engineer

Versatile and driven professional with expertise as a skilled full-stack engineer and a lecturer, adeptly combining teaching, learning, and innovative problem-solving abilities. Possesses dual citizenship in the United States and Bulgaria, enhancing global adaptability and cross-cultural communication.



WORK EXPERIENCE

Senior Backend Engineer

Valtech(former Kin+Carta), Sofia/Bulgaria

12/2024 - Present Remote

Achievements/Tasks

- Integrated multiple payment systems including GoCardless and Stripe for a financing app, ensuring secure and reliable collections.
- Reduced CI pipeline run times by optimizing test execution, resulting in faster deployments and improved developer productivity.
- Wrote extensive unit, integration and end-to-end tests while collaborating with a globally distributed team, handling high-responsibility features.
- Mentored junior developers and conducted regular PR reviews to maintain code quality and support team growth
- Developed proxy logic to enable A/B testing in production, allowing datadriven experimentation with minimal risk.

Full Stack Engineer DevPunks, Turin/Italy

11/2023 - 12/2024

Remote

Achievements/Tasks

- Architected a Neo4j graph database powering a travel app, creating a structure optimized for finding the best paths and making recommendations.
- Tackled the complex challenge of implementing an offline mode that provides full app functionality as if users were online. My involvement spans every part of the project, from database design to backend development, data scraping, mobile development, web development and AI integration.
- Introduced a faster and more cost-efficient solution for our RAG (Retrieval-Augmented Generation) and NER (Named Entity Recognition) processes using Grog.
- Additionally, I led live coding sessions where I programmed while others observed, recording them for ongoing team learning.

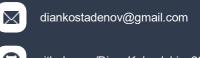
Technical Trainer/Lecturer SoftUni, Sofia/Bulgaria

09/2022 - Present

Sofia/Remote

Achievements

- Lecturer, imparting knowledge in various courses, including JavaScript, C++, Python OOP, Python Advanced, Postgres, SQL, and Django. I have successfully taught and mentored approximately 5000 students.
- Taking a proactive approach to enhance the learning experience, I introduced theory tests after each lecture and integrated practical exercises to explore supplementary concepts, effectively enriching the student's understanding of the subjects.
- Links to some of the courses I teach:
- Python OOP
- Python Advanced
- Django ORM
- Postgres
- Django Basics
- Django Advanced
- C++ Fundamentals



github.com/DiyanKalaydzhiev23

Chicago USA / Sofia Bulgaria

dian-kalaydzhiev.com

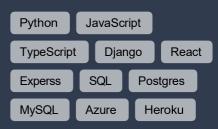
linkedin.com/in/diankalaydzhiev-250577223



HONOR AWARDS

Top 100 most influential IT professionals in Bulgaria 2024 CarrerShow







PROJECTS

MarkIt

- A HackAUBG 6.0 winning project. MarkIt streamlines the often time-consuming and subjective process of analyzing interview data in marketing research. This innovative solution provides comprehensive analyses of interviews and data-driven recommendations, optimizing your research workflow and leading to more secure and strategic decision-making.
- Project presentation
- Link to winning ceremony

Emotion Talk

- Demotion Talk is a personal project I developed from scratch, featuring a web app built with Django REST for the backend and React for the frontend. The application leverages AI and utilizes libraries like Librosa to accurately recognize emotions from speech, providing users with an interactive platform to better understand and express their emotions.
- Link to Front-End
- Link to Back-End



Lecturer

New Bulgarian University, Sofia/Bulgaria

10/2023 - Present Sofia/On-site

Achievements/Tasks

- Teaching C++ programming to groups of up to 200 students, both online and on-site, at New Bulgarian University.
- Developed and delivered comprehensive C++ course content, fostering an interactive learning.
- Introduced a Python script for students solutions scraping saving dozens of hours.

Full Stack Engineer

Gentle & Rose, Varna/Bulgaria

11/2022 - 11/2023 Remote

Achievements

- During my work as a Full Stack Engineer at Gentle & Rose, I successfully contributed to the development of 2 Shopify web applications.
- "Thunder Page Speed Optimizer," significantly enhanced the SEO performance of Shopify stores. As a key accomplishment, I independently designed and implemented a new React frontend from scratch within a few months, resulting in the app gaining several thousand users within 3 months.
- "Customizable Sliding Cart" project Demonstrated strong initiative by thoroughly refactoring the codebase and optimizing the development process. Introduced a novel method for rendering a preview cart at the shop, leading to a substantial improvement in efficiency and user experience. By reducing the average save time from 15 seconds to just 2 seconds.

Content Developer

SoftUni, Sofia/Bulgaria

06/2022 - 11/2022 Remote

Achievements

- Made significant contributions to the educational resources. Specifically, I have designed and developed 4 exams and 10 exercises, which remain integral components of the curriculum, benefiting around 500 students monthly.
- Developed a web application used as an example and practice tool for students during each edition of the course.



Bachelor's degree in Computer Science

New Bulgarian University, Sofia/Bulgaria

10/2022 - Present Sofia/Bulgaria

Courses

Extensive range of mathematics courses, including Discrete Math, Linear Algebra, and Analytic Geometry. Additionally, I dedicated a year to mastering C++ through comprehensive courses, further expanding my programming expertise and problem-solving skills.

Professional Qualification Full Stack Engineer

Software University (SoftUni), Sofia/Bulgaria

10/2020 - 06/2022 GPA: 4

Courses

2 years to completing the comprehensive Full Stack Python roadmap. Throughout my journey, I successfully completed courses in Python OOP, Django, JavaScript, React, and more, achieving the highest scores in my graduating class and ranking in the top 1% of the course participants.



PROJECTS

EnergyDrinkGPT

- A Java-based Android application that utilizes GROQ for creating custom GPT models tailored for different users. The app features energy drink scanning and image recognition capabilities.
- Link to Repo

Quiz Master

- Quiz Master is a Django-based web app with vanilla JS, employing PostgreSQL for the database and incorporating Redis and Celery. It enables users to create and solve quizzes on a wide range of topics.
- Link to app

DaDay

- A hackathon project with Django REST Framework backend and React frontend, serving as a social network for kids and parents. As a full-stack engineer, I played a pivotal role in data processing, API management, and bug fixing, ensuring a seamless and user-friendly experience. The app also offers parents analytics on their kid's emotions as they write privately in a diary within the application.
- Link to the app