Velislav Gerov

TECH LEAD - FULL STACK
SOFTWARE ENGINEERING

Details

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Links

Personal Website

Github

LinkedIn

Core Skills

Technical Leadership

System Architecture

API Development

Full-Stack Development

Mobile App Development

TypeScript

JavaScript

React

React Native

Python

SQL

Linux

Claude Code

Open AI Platform

RAG Workflows

Amazon Bedrock

Amazon CloudFront

Amazon EC2

Amazon RDS

Amazon SQS

Amazon S3

AWS Elastic Beanstalk

DevOps

CI/CD

Profile

Full-stack software engineer with 8+ years experience building scalable web and mobile applications using TypeScript, React, Python and AWS. Proven track record of technical leadership, architecting reliable cloud-native systems, and delivering robust technical solutions through end-to-end system ownership and engineering excellence.

Work Experience

Tech Lead, Walking on Earth, London

JAN 2024 — PRESENT

- **Scalability Impact**: Architected infrastructure supporting 5x user growth and 50x traffic spikes through comprehensive load testing and AWS optimisation
- **AI Integration**: Built AI-powered smart coach prototype using RAG workflows with OpenAI and Amazon Bedrock, delivering personalised insights from psychometric data
- **Performance Engineering**: Optimised biometrics data pipeline, reducing database utilisation from 40% to <5% through root cause analysis and pipeline redesign
- **Team Leadership**: Managed team of full-stack engineers, conducting performance reviews and technical mentorship, resulting in 3 autonomous engineers capable of feature leadership
- **Modern Development**: Established AI-native development practices using GitHub Copilot and Claude Code, improving code quality, automated testing coverage, and knowledge sharing
- **Cross-Platform Analytics**: Implemented Mixpanel analytics across Django, React, and React Native, consolidating data sources for organization-wide self-service analytics

Senior Full Stack Developer, Walking on Earth, London

MAR 2023 — DEC 2023

- **System Architecture**: Built comprehensive stress resilience measurement system combining psychometric and biometrics data, developing real-time data pipeline to process wearable device data using Celery and Amazon SQS
- **Authentication & Security**: Delivered OAuth integration across full stack, implementing secure single sign-on flows with enhanced user experience
- **Technical Leadership**: Led 6-engineer team through multi-platform rebranding, redesigning GraphQL API architecture and establishing component design system

Full Stack Developer, Walking on Earth, Brussels (Remote)

JAN 2022 — MAR 2023

- **End-to-End Ownership**: Owned suite of web applications with full responsibility for architecture, deployment, and monitoring while mentoring outsourced teams
- **Observability**: Implemented comprehensive monitoring solutions across technology stack with Sentry integration, CloudTrail auditing, and CloudWatch infrastructure monitoring for enhanced system reliability
- **DevOps Excellence**: Standardised development practices with GitHub Actions deployment pipelines, automated testing frameworks, code review processes, and comprehensive documentation
- **Infrastructure**: Executed complete infrastructure overhaul using Terraform, migrating to S3/CloudFront static hosting and Elastic Beanstalk services with reliability improvements

Senior Software Developer, TelebidPro, Sofia

JUN 2019 — JUN 2021

- **System Architecture**: Designed flexible financial system using double-entry bookkeeping principles supporting arbitrary currencies with comprehensive audit trails
- **Real-Time Applications**: Built React-based casino floor monitoring interfaces enabling operators to track multiple live games with financial oversight
- **Technical Leadership**: Led React migration initiative while mentoring junior developer, implementing performance optimisations and development best practices
- **Embedded System Integration**: Developed table operator interface facilitating user inputs and API communication between custom embedded systems and casino management system, supporting tender transactions and card authorisation workflows

Software Developer, TelebidPro, Sofia

SEPT 2018 — MAY 2019

- **Distributed Systems**: Owned multi-location rewards distribution platform, integrating online environment and developing display APIs with performance improvements
- **Regulatory Compliance**: Implemented automated compliance system enabling operations in new jurisdictions through standardized data delivery via SFTP

Junior Software Developer, TelebidPro, Sofia

MAY 2017 — AUG 2018

- **Integration Platform**: Built modular Python framework with web interface for mathematical model integration and configuration, connecting to existing reward distribution system used in casino game systems
- **Custom Library Development**: Developed two Perl libraries for production system requirements - JSON Patch (RFC6902) implementation and JSON Patch Humanize module for user-friendly diff output

Projects

Stealth Project - AI-Powered Analytics Platform

SEPT 2025 — PRESENT

- Architected business intelligence system using Claude Code, Python, SQLite, and Streamlit with automated ETL pipelines and interactive Plotly visualizations
- Natural Language Query Engine: Integrated conversational AI interface using OpenAI GPT-5 with database schema introspection for plain English queries and safe SQL generation

Cat Gen - Mobile Development

JUN 2025 — PRESENT

- Developed AI-powered mobile app from scratch using Claude Code, React Native and Expo, transforming selfies into unique cat characters
- AI Integration: Implemented OpenAI GPT-4o integration for character generation and personality trait matching based on user photos, with Supabase backend

Docxforms - Full-Stack Development

JUL 2021 — AUG 2021

- Developed web application from scratch using Next.js and React Bootstrap, enabling users to upload .docx templates and generate dynamic web forms
- Document Processing: Integrated docxtemplater library with Prisma ORM and PostgreSQL for automatic document filling and generation from form submissions

Education

BSc Computing Science, University of Aberdeen

JAN 2012 – DEC 2016

GPA: Upper Second-Class Honours (2:1)

Certificates

Mathematics for Machine Learning

OCT 2021

Specialization by Imperial College London on Coursera, Grade: 100%

Machine Learning

JUN 2021

Course by Stanford University on Coursera, Grade: 100%

Agile Software Development

MAR 2020

Course by Software University, Grade: 6.00/6.00