

Abel Ghebrezadik

Lead/Senior Software Engineer

Address: Enfield, London, United Kingdom | Phone: 07527841324

Email: abel_g@hotmail.co.uk | LinkedIn: [linkedin.com/in/abel-ghebrezadik](https://www.linkedin.com/in/abel-ghebrezadik) | Website: abelghebz.com | GitHub: github.com/negus14

Profile

Senior Software Engineer with 9 years' experience across Tech: Finance, Property, Health, and Gambling. Self-taught developer with a Mathematics degree and a strong analytical mindset. Proven track record in leading greenfield projects, resolving legacy tech debt, and deploying scalable backend systems using .NET, AWS, and modern ORMs. Effective communicator with leadership experience, mentoring junior engineers and stepping into Lead Developer roles as needed.

Technical Skills

Languages: C#, Java, Python, C++, JavaScript, TypeScript

Web Frameworks: .NET (Core/Framework), React.js, Vue.js, Node.js, Blazor

Mobile Frameworks: React Native, Flutter, Progressive Web Apps (PWA)

Databases: MSSQL, MySQL, PostgreSQL, MongoDB, Snowflake

Cloud & DevOps: AWS (Lambda, API Gateway, CloudFormation), Serverless Architecture, Terraform

CI/CD: Docker, GitHub Actions, ArgoCD

Version Control: GitHub, Bitbucket

IDEs: Visual Studio, Visual Studio Code, Cursor

Tools & Practices: Dapper, Microservices, REST APIs, HTTP v 2, GraphQL, Unit Testing, Agile Methodologies, LLM, Prompt Engineering, AI Integration, gRPC, SignalR, Redis, Kafka, Kubernetes, Orleans, Kubernetes

Work Experience

Full Stack Developer

Arena Entertainment - December 2025 to Present. Crypto Gambling company. Optimised performance for users in existing admin platform in TypeScript. Rebuilding internal admin platform in C#.

- Refactoring TypeScript application code adhering to big O notation and reducing inefficient code.
- 50% improvement in long running databases, Snowflake and MySQL queries, adding indexes also. Adding bool filter to strip optional relational data for Admin service
- Reducing latency, by up to 8s, for all API calls 94% hit rate avoiding cold starts. Using warm up pings in lambdas and concurrency to ensure latency times, caching preflight checks for reduction in cold starts.
- Enhanced Redis developed further, adding batch pipelines to reduce network round trips.
- Rewrote and standardised data tables, allowing prefetching and implemented keyset and cursor pagination, to remove loading of large datasets.
- Created automation application, integrating playwright, Bitbucket, GitHub, Jira MCPs to scan tickets and generate UI tests and provide reports to skip manual testing.
- Implementing a new full stack application in React and .NET, DDD using .md files, CQRS events published by Kafka internally, gRPC interservice comms.

Lead/Senior Software Engineer

Betmate - April 2025 to July 2025. Sports betting company. Built multiplayer game for leading sports betting company with a £500k jackpot. Scaled to 300,000 users.

- Designed and developed a high-performance C# backend application, deployed using AWS Lambda (serverless architecture) for scalability and cost-efficiency. Designed to scale for up to 100,000s of users.
- Integrated CockroachDB with Dapper ORM, optimising for distributed SQL performance and lightweight data access.
- Implemented CI/CD pipelines and infrastructure-as-code using AWS tools (e.g., API Gateway, Lambda, CloudFormation).
- Built event driven architecture using SNS and SQS.
- Curated list of podcasts, football clubs, influencers to reach out to the football community as I have built up a good knowledge base as a firm. Actively reached out to my network to introduce Premier League to Non League Clubs, podcasts with 50 – 215k followers.

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Software Engineer

NHS England - December 2024 to February 2025. Contract outside IR35.
Python healthcare management application.

- Delivered a desktop application written in Python and Selenium to automate features in a 3rd Party healthcare application used nationwide by GPs.
- Purpose of the product was to automate a bulk creation and deletion of templates which removes a time & labor inefficiency in using 3rd Party software.

Algorithm Tutor

Titanium Tutors - November 2024 to April 2025. Self-employed.

- Tutored university undergraduate student. Coding in Python, I taught algorithm theorems.
- Curated lessons to build self confidence in finding correct implementation for algorithms.
- Goal was to pass technical tests for internships.

Senior Software Engineer

Fvtvre - April 2024 to July 2024. Equity-based ownership model.
.NET 8 microservice platform, B2B property management product.

- Developed a .NET 8 microservice API and Vue.js frontend for property management.
- KSA based startup, we build a property management product and rolled it out to EJAR, the Saudi department of rent. The goal was to enhance their laborious inventory assessment of properties.

Senior Software Engineer

SalaryFinance - August 2021 to April 2024. Permanent role. Volunteered for redundancy as I wanted a new challenge.
.NET 6 microservices platform. B2B to B2C loan products and salary advancement.

- Technical lead on critical project, Tahiti, which saved the company millions in fines. 70/80 hours p/w for in October 2023. 50/70 hours for 3 months between September to December 2023. Meetings with the leadership team discussing implementation, outcomes and future deliverables.
- New feature development was blocked, a company OKR focus was to clear prod issues. I resolved 500+ prod issues in 6-months, creation date as far back as Sept 2021, completed issues in 80% less time than other engineer, met OLAs completion times and unblocked new feature development.
- Built new front-end features and back-end services features for customer ops to reduce raised no. of production issues
- Proactively applying root cause fixes to recurring issues in key microservices.
- Created and updated processes and playbooks to aid knowledge sharing.
- Mentored Junior Engineers and took on Lead Developer duties in the Lead's absence.
- Involved in debt sale implementation, writing out documentations, and presenting application to external client.

Senior Software Engineer

Optal - May 2018 to April 2021. Permanent role. Sold to **Wex** in April 2021 and made redundant.
Monolith platform. B2B e-card payments for travel websites.

- Developed desktop applications for accounts management system which reconciled, monitored, and settled.
- Monitored millions of daily transactions from travel websites Expedia and Booking.com reconciled with Ixaris and MasterCard data.
- Settled transactions across 50+ bank accounts in multiple currencies across 10 international Optal entities.

IT Consultant (Junior Software Engineer)

FDM Group - May 2016 to May 2018. Graduate scheme. Contracted to London Metal Exchange

- Built new functionality for existing applications in C++, Java and C#.
- Created a SOAP API for internal staff to retrieve company data.
- Scripted in variety of languages from Perl, PowerShell, Batch in archaic systems.
- Developed MIFID II regulatory reporting APIs in C# .NET, ensuring compliance with standards.

Education

University of Southampton

BSc Mathematics (2:1) - October 2009 to June 2013

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Woodhouse College

A-Levels: Mathematics (A), Economics (A), Sociology (B) - August 2007 to June 2009

Interests

I enjoy building websites and apps for external ventures, DJing, and creating music mixes. I'm also a fan of physical endurance challenges, having completed the Hackney Half Marathon, London Olympic Triathlon, and Tough Mudder.

This is one of the websites I built. It is my own start up. An art dealership website: diasporadreams.co.uk