

Burak Dede

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PROFESSIONAL EXPERIENCE

Wayfair — Senior Staff Software Engineer, Site Lead

Oct 2021 – Present

- Technical Director and Architect for first- and middle-mile Transportation Management System (TMS), leading 10 teams (100+ engineers). Secured \$10M budget approval through Director-level presentation following comprehensive vendor evaluation and structured RFP process.
- Architected cloud-native TMS solution on GCP using GKE, Cloud SQL, Pub/Sub, and BigQuery with 10 Spring Boot microservices processing 250K daily events at P95 under 200ms latency, enabling operational efficiency at scale.
- Delivered Manhattan Associates integration architecture with Wayfair transportation systems, completing rollout to 50+ middle-mile facilities within committed 12-month timeline. Generated \$12M+ first-year optimization savings on \$1B+ annual transportation spend.
- Championed and architected last-mile delivery expansion following TMS success, leading comprehensive build vs. buy analysis and vendor due diligence process. Secured \$2M budget approval and directed FarEye integration program spanning 7 teams (50+ engineers).
- Delivered seamless interoperability architecture across 90+ 3P HDO facilities with measurable improvements in order dwell time and customer scheduling experience for last-mile operations.
- Architected supply chain master data platform and transportation network graph serving 30K suppliers and 100+ facilities. Implemented event-driven microservices with real-time data synchronization, reducing delivery promise breaches by 24% across 40M+ annual orders.
- Led end-to-end Customer Returns enterprise redesign from customer contact through return delivery across 40+ NA/EU facilities. Architected comprehensive solution addressing complex legacy systems and team alignment, reducing customer contacts by 20%, support tickets by 85%, and leakage by \$3M/year.
- Established architectural decision forum (ADRs/RFCs) processing 32 critical decisions annually with 80% approval rate. Accelerated cross-team technical alignment from quarterly debates to 2-week resolution cycles across 500+ engineers.
- Introduced DORA-based operational excellence metrics with measurable YoY targets, implementing automated monitoring for deployment frequency, lead time, MTTR, and change failure rate across all teams.
- As Berlin Site Engineering Lead, oversaw technical hiring strategy and engineering operations for 500+ engineer European hub across multiple organizations. Designed technical interview processes, managed education/upskilling budget, and established engineering community initiatives including brown bag sessions, technical talks, and campus hiring programs.

N26 — Staff Software Engineer, Engineering Group Lead

Jan 2018 – Oct 2021

- Engineering lead and most senior engineer in Payments group (50+ engineers across Card and Bank Payments), overseeing foundational systems across EU, UK, and US markets serving 8M+ customers with currency-agnostic, regulatory-compliant architecture.
- Architected mission-critical event sourcing ledger and streaming systems using Java/Kotlin, PostgreSQL, and AWS Kinesis, delivering 99.9% availability at 1000+ TPS resting throughput (4-5K+ TPS peak) through immutable, append-only data patterns.
- Orchestrated zero-data-loss migration of billions of financial events from legacy monoliths to new event sourcing architecture impacting all downstream systems. Implemented dual-write pattern with real-time data comparison, enabling gradual user migration to 100%.
- Achieved migration timeline reduction from 4 weeks to hours through parallel data migration processing, enabling multiple pre-switch testing cycles and unblocking business-critical UK launch from weeks to days.
- Led delivery of foundational features (SEPA Instant, Shared Spaces, Multi-IBAN) enabling international expansion and providing competitive advantage through unique capabilities that contributed to user growth in new markets.
- Optimized payment pipelines with PostgreSQL horizontal sharding and priority-based polling, reducing SLAs from 6 seconds to under 5 seconds (20% improvement) while supporting customer growth from 1-2M to 8M users.
- Designed technical interview processes and led structured 6-month onboarding program during hypergrowth phase, scaling payments team from 10 to 50+ engineers.

Odeal — Head of Engineering

Jan 2015 – Apr 2017

- First engineering hire; rebuilt payments platform from ground up using Java/Dropwizard/MySQL microservices architecture, scaling organization from seed stage to Series A funding milestone.

- Enabled integration with major PoS terminal systems through robust API design, driving transaction volume growth and increased merchant onboarding that directly contributed to funding success.
- Led all hiring decisions and team scaling from 0 to 30 engineers within 2 years (10+ engineers in Year 1). Structured organization into backend engineering, mobile development, and platform teams to support mobile-focused payment gateway business.
- Architected migration from monolithic AppEngine to 10+ microservices on AWS using EC2, RDS, SQS, and SNS. Implemented clean REST interfaces for synchronous communication and cloud-native queues for asynchronous processing, enabling 10x transaction growth.
- Implemented Docker Swarm container orchestration for staging/testing environments, reducing infrastructure costs 60% through dynamic scaling versus dedicated EC2 instances while maintaining production stability on traditional EC2 infrastructure.
- Established foundational engineering practices including CI/CD pipeline, observability infrastructure (logging, alerting, metrics), and rollout strategies. Reduced SDLC from days to hours and new hire ramp-up from months to weeks through structured development processes.

Delivery Hero (Yemeksepeti) — Tech Lead

Dec 2012 – Aug 2014

- Built unified API powering 100K+ daily food delivery orders across Turkey's largest marketplace with scalable architecture design.
- Led infrastructure migration to AWS and modernized order management tools, supporting 3M+ monthly orders with improved system scalability and operational efficiency.
- Architected search infrastructure migration from Microsoft FAST to Apache Solr, reducing restaurant updates and re-indexing time by 30% while improving search performance.
- Technical lead for Foodonlick international expansion in MENA region, achieving 200% operational growth and enabling strategic Talabat acquisition through robust platform architecture.

Vaarmi.com — Founder & CTO

Jan 2012 – Dec 2012

- Founded buyer-oriented marketplace based on award-winning university thesis project, securing seed investment from Startup Labs incubator and angel investors while expanding user base to thousands of active users.
- Led technical vision and scaled engineering team from 0 to 5 engineers, architecting full-stack marketplace platform using Python, MongoDB, and Redis on AWS infrastructure.
- Delivered complete web platform and first-generation mobile applications for both Android and iOS, establishing foundational marketplace capabilities and user experience.
- Successfully completed acqui-hire by Delivery Hero/Yemeksepeti to build similar marketplace technology capabilities, leading to technical leadership opportunities.

Turkcell Technology R&D — Software Engineer

Sep 2009 – Jan 2012

- Delivered iOS, Android, and Blackberry mobile applications for 35M+ subscribers end-to-end from design to testing with cross-platform development expertise.
- Built recommendation engine for 30M+ users, boosting Turkcell's application store recommendations and increasing download rates through machine learning algorithms.
- Developed backend systems for social platform (Gezenzi), scaling to millions of users with high-performance distributed architecture.

EDUCATION

Yeditepe University

2006 – 2010

BS, Computer Science & Engineering

Best Engineering Project Award - Vaarmi marketplace platform (later founded as startup)

TECHNICAL SKILLS

Technical Leadership: Enterprise Architecture, Technical Vision & Roadmap, Build vs Buy Decisions, Board-Level Technical Strategy, Cross-Functional Leadership, Engineering Culture

Engineering Management: Team Scaling (0-100+ engineers), Technical Hiring & Interview Design, Site Leadership, Mentorship Programs, Engineering Process Optimization

Software Architecture: Distributed Systems, Event-Driven Architecture, Microservices, Data Platforms, Cloud-Native Solutions, Performance at Scale

Programming Languages: Java, Kotlin, Python, C/C++, C#

Web Technologies: JavaScript (ECMAScript), HTML, CSS

Cloud & Operations: AWS, GCP, Docker, Terraform, Vault, Nomad, Saltstack

Databases: PostgreSQL, MySQL, DynamoDB, MongoDB, Redis

Emerging Technologies: Generative AI (LLMs, codegen tools), Data Lake, Real-time Streaming