

Umut Celik

Jersey City, NJ

05umutcelik@gmail.com

<https://www.linkedin.com/in/05umutcelik/> | <https://github.com/umutc> | <https://umutcelik.com.tr>

Summary

Senior software engineer with 10+ years building production Node.js and TypeScript systems on AWS. Specialized in autonomous AI agents and large-scale web scraping — currently running 3 generations of AI-powered scrapers across 10K+ sites at MotoMate. Track record across EdTech, global IoT, and B2B SaaS.

Professional Experience

MotoMate LLC, *Remote, Las Vegas, NV, US*
Senior Software Engineer

Dec 2021 – Present

- Built 3 generations of AI-powered scraping automation on Node.js/TypeScript, evolving from code generation to fully autonomous agents that write, test, and deploy their own scrapers across 10K+ dealer sites — cut per-platform dev time ~75% (8h to 2h)
- Designed event-driven AWS platform (Lambda, SQS/SNS, DynamoDB, S3, ElastiCache) aggregating 1M+ inventory records from 10K+ dealership websites
- Modernized legacy on-premises infrastructure to Well-Architected AWS with CircleCI blue/green — 40min manual deploy to 10min automated
- Diagnosed and fixed Node.js production stability issues (event loop stalls, memory leaks) using `worker_threads` and heap snapshots

ViaDirect, *On Site, Istanbul, Turkey*
Senior Software Engineer

Jan 2020 – Dec 2021

- Led 4-month root-cause investigation on Node.js/Electron memory leak using Chrome DevTools profiling, eliminating daily restart requirement and restoring 24/7 stability for hundreds of kiosks globally
- Redesigned OTA update pipeline with Brotli level 11 compression, cutting payloads from 250 MB to 4 MB

Magistum, *Hybrid, Istanbul, Turkey*
Co-founder of Engineering / Tech Lead

Jul 2017 – Dec 2019

- Co-founded engineering with CEO; led 5-engineer team and drove architecture from day one on a greenfield platform
- Designed event-driven serverless AWS platform (ECS/Fargate, Lambda, SQS/SNS) with Angular web + Capacitor mobile — 100K+ users, 40K students, 99.99% SLA
- Standardized integration patterns, automated CI/CD, and reduced infrastructure costs

TabX, *On Site, Istanbul, Turkey*
Web Developer

Jun 2016 – Jun 2017

- Shipped ~20% of overall product codebase to hit aggressive time-to-market goals on school-management SaaS
- Built real-time event-based transportation tracker (PHP/CodeIgniter, jQuery, Redis, 3G/GPS IoT) and large-scale exam reporting pipeline in MariaDB for 500K+ submissions

Education

The City University of New York - The College of Staten Island (CUNY CSI), *Staten Island, NY, US*
M.S. in Computer Science

Jan 2025 – Dec 2026

Marmara University, Atatürk Faculty of Education, *Istanbul, Turkey*
B.S. in Computer Education and Instructional Technology (CEIT)

Sep 2012 – Jun 2016

GPA: 3.00/4.00

Technical Skills

Primary: Node.js, TypeScript, JavaScript

Cloud: AWS (Lambda, ECS/Fargate, DynamoDB, SQS/SNS, S3, ElastiCache, CDK, SAM, CloudFormation), Docker, CircleCI, GitHub Actions

Databases: MongoDB, DynamoDB, PostgreSQL, MariaDB, Redis

Specialty: AI agent automation, large-scale web scraping, OpenAI Agents SDK, Anthropic Claude SDK, MCP (Model Context Protocol), event-driven architecture, IoT/OTA pipelines

Also Proficient: PHP, Python, Go, Angular, React, Next.js, Electron, Capacitor

Certifications: AWS Certified Developer - Associate Level, Amazon DynamoDB Deep Dive