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# BERK EROL

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**GitHub** [berkerol](https://github.com/berkerol)

## EXPERIENCE

- May 2020 **Software Engineer** Tendon.io / Justcoach Remote from Istanbul, TR for London, UK  
Apr. 2021
  - Prepared new product for launch by developing payment systems and social network features.
  - Built the infrastructure for all applications in AWS using CDK, EC2, VPC, ECS, ECR, RDS, S3, IAM.
  - Dockerized Node.js and React applications and migrated them from Elastic Beanstalk to ECS.
  - Earned Cyber Essentials Plus certification by ensuring encryption at rest and in transit in AWS.
  - Achieved GDPR compliance by migrating all AWS resources from London to Ireland.
  - Reduced GitLab CI/CD cost to 2.5% of previous value and increased test coverage by 50%.
- Dec. 2019 **Software Engineer** Baumeister AI (failed startup) Remote from Istanbul, TR for Berlin, DE  
Apr. 2020
  - Built the infrastructure for all applications in AWS using CDK, EC2, ECS, ECR, RDS, S3, R53, IAM.
  - Dockerized a Node.js Koa application and migrated it from Elastic Beanstalk to ECS and RDS.
  - Built a sketch to PowerPoint converter using Python, Serverless Framework and AWS Lambda.
  - Created a website with auth for a handwriting recognition tool using AWS Amplify and Cognito.
- Jan. 2019 **Infrastructure Engineer** Armut / HomeRun Istanbul, TR  
Dec. 2019
  - Created a CI/CD pipeline for 30+ applications in AWS using CodeBuild, Jenkins and Terraform.
  - Built an automated pull request checker to run linters, tests and SonarQube analysis in Jenkins.
  - Created a release notifier to inform about commits and issues in each deployment using Node.js.
  - Improved security by removing secrets from source code and storing them in AWS Parameter Store.
  - Improved the notification system for maintainability, new business rules and regulations using C#.

## EDUCATION

- Sep. 2014 **B.S. in Computer Engineering** Bogazici University Istanbul, TR  
June 2019
  - GPA: 3.18/4.00 Senior Project: Identity System for Blockchain (Solidity, Node.js, MongoDB, Docker)
  - Highest Grades: Analysis of Algorithms, Data Str. & Algorithms, Systems Prog., OS, Prob. & Statistics
- Apr. 2018 **Erasmus Study in Informatics** Technical University of Munich Munich, DE  
Aug. 2018
  - Courses: Social Gaming, Testing, Security Eng., Project Org. & Mgmt. in SWE, Aug. Reality, 3D UIs

## SKILLS

- Proficient** JavaScript & TypeScript (ES6+, Node.js, Express), Java 8 (Spring Boot), Git, AWS, REST APIs
- Familiar** Python, C#, C, C++, Solidity, HTML5, CSS3, GraphQL,  
MySQL, PostgreSQL, MongoDB, Cassandra, Elasticsearch (ELK),  
Unix & Linux, Docker, Jenkins, Terraform, Azure
- Concepts** Algorithms & data structures, object-oriented programming, design patterns & principles, Agile
- Interests** AI/ML/DL, AR/VR/MR, UI/UX, IoT, P2P, DApps, blockchain, cryptography, network, security
- Speaks** Turkish (Native), English (Proficient), German (Fluent, C1 level of DSD II Certificate)

## PROJECTS & CERTIFICATIONS

- Apr. 2020 **Signalify (IoT Vehicle Tracking):** Java 8, Spring Boot, TypeScript, Angular 8, PostgreSQL, ActiveMQ  
Present Modernized to Java 8 & Spring Boot. Added AWS Lambda with Python, analytics charts, emails, FCM.
- Apr. 2021 **Microsoft Certified: Azure AI Fundamentals** [Verify](#)  
Mar. 2021 **Microsoft Certified: Azure Data Fundamentals** [Verify](#)  
Mar. 2021 **Microsoft Certified: Azure Fundamentals** [Verify](#)
- Dec. 2020 **Apache Cassandra 3 Developer Associate Certification** by DataStax [Verify](#)