# İbrahim Ethem DEMİRCİ

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## Profile

**A *mathematician who has been coding for over a decade.***

**Linkedin**/in/iedmrc **Github**/iedmrc **Twitter**/iedmrc

## Professional Experience

**Stria.co**, *Co-Founder & CTO*
07/2018 – present | Ankara, Turkey
- **Software Architecture**
- Research & Development of a **Deep Learning** Based **Text Emotion Analyzer & Sentiment Analyzer** (NLP) with Keras on Python w/ Flask
- **Backend Development** (*AdonisJs on NodeJs*)
- **Database Administration** (*MySQL, MongoDB*)
- **DevOps** (*Docker on Google Cloud Platform*)
- **Google Cloud Platform Engineering** (*CDN, Loadbalancers, Storage, Network, VPN*)

**Etc Group**, *Consultant*
04/2019 – present | İstanbul & Ankara, Turkey
- **Collecturk**: Research & Development of a *Deep Learning* model which scores the calls made between agents and customers.
- **ETCBase**: Consultancy on bidirectional communication on tcp/ip through WebSockets

**Medical Information Technology Solutions**,
*Full Stack Software Developer*
07/2017 – 07/2018 | Ankara, Turkey
A software R&D company developing AI-based healthcare applications.
- Migrated C#.NET, MSSQL based TUBITAK 1507 (Project Id: 7130088) "Medical Second Opinion System" Web Application to Node.js, MongoDB, Vanilla JS and Jquery stack , under HIPAA Compliance.
- Developed and published Dockerized **Opencart** & Mariadb & **Nginx** & **Letsencrypt** stack for https://erkemyayincilik.com , e-commerce platform.
- Administrated dedicated servers of company.

## Education

**Hacettepe University**,
*Faculty of Science, Mathematics BSc*
10/2014 – 06/2018 | Ankara, Turkey
Ranked **3rd** in the graduating class with **3.47** CGPA as **Honor Student**
**Featured Courses**
*Data Structures and Algorithms* **|** *Introduction to Cryptography* **|** *Introduction to Programming* **|** *Java* **|** *Linear Algebra* **|** *Introduction to Computer Algorithms* **|** *Introduction to Algebraic Coding Theory* **|** *Applied Computer Algebra* **|** *Algebra and Number Theory With Gap* **|** *Abstract Algebra*

**Hasan Âli Yücel Teacher Training High School**
09/2010 – 06/2014 | Ankara, Turkey

## Awards

**9th Place, Cansat Competition**,
*The American Astronautical Society (AAS)*
06/2017
Developed **Ground Control Station**
- http://www.cansatcompetition.com
- Organization: **The American Astronautical Society (AAS), NASA, Lockheed Martin**

**1st Place, "Tell About Your School" Web Site Development Competition**, *Middle East Technical University, sponsored by Microsoft Turkey*
06/2010
- Awarded first prize with an ASP.NET based web site. https://tinyurl.com/competition-on-news

## Projects

**Galois**, *An auto code completer for code editors based on OpenAI GPT-2.*
08/2019 – present
A Deep Learning Based Autocompleter
https://usegalois.com

**Notlarim.com**, *CTO*

04/2015 – 02/2019 | Ankara, Turkey

Notlarim.com, A marketplace for lecture notes
- Fullstack development and maintenance with **PHP**, **Laravel**, MySQL stack .
- Deployment to **DigitalOcean** containerized via **Docker**.

**Ankara Metropolitan Municipality**,

*Software Developer, Subcontractor*

10/2017 – 01/2018 | Ankara, Turkey

Ankara Metropolitan Municipality RFID Toner Tracking System
- Developed a **C#** based software onto an **RFID reader** to track toners through RFID stickers.

**Finkafe**, *Project Leader, Freelance*

06/2016 – 09/2016 | Ankara, Turkey

Finkafe.com , A local social media app
- Backend Development with **PHP**, **Laravel**, MySql etc. stack and **Deployment Operations**

## Teaching Experiences

**CK200**, *Instructor*

02/2018 – 04/2018 | Ankara, Turkey

**Hacettepe University**, *Robotics Society*
**Main Topics**: *History of Internet, Computer and Software Defined Networks, Docker*

**CK101**, *Instructor*

10/2017 – 12/2017 | Ankara, Turkey

**Hacettepe University**, *Robotics Society*
**Main Topics**: *History of Computers, Processors and Operating Systems, History of Programming, Unix and FSF, GNU Linux, Git, Github*

**Data Structures And Algorithms Lecture**,

*Assistant Instructor*

02/2017 – 06/2017 | Ankara, Turkey

**Hacettepe University**, *Mathematics Department*

## Languages

**Turkish**                              ● ● ● ● ●

**English**                              ● ● ● ● ○

**Vehicle Routing Solver**

06/2019

I developed an **VRPTW** solver based on **VROOM**, **OSRM** and **OSM** and dockerized the ecosystem.
https://github.com/iedmrc/vroom-docker

## Skills

**Natural Language Processing** (*Sentiment Analysis, Text Classification, Document Scoring*),
**Deep Learning**, **Python**, **GNU/Linux, Unix**,
**Docker** (*Containers*), **Javascript**, **Node.js**,
**Web Security**, **Kubernetes**,
**PHP** (*Laravel Framework*),
**Cloud Platforms** (*Google Cloud Platform, DigitalOcean, Amazon*),
**RDBMSs** (*MYSQL, MSSQL*),
**NoSQLs** (*MongoDB, Redis*), **RestAPI** (*Restful*),
**Cryptography**,
**Computer & Software Defined Networks**,
**HTML & CSS**, **C#** (*ASP.NET*), **HIPAA**,
**Vehicle Routing Problems and Solvers**
(*VRPTW, CVRP, Graph Theory*)

## Courses

**Web Application Security and Secure Code Development**,
*Academic Informatics*

02/2017 | Aksaray, Turkey

National academic conferences and workshops. http://ab.org.tr/ab17/

## References

**Oğuz Yayla**, *Assoc. Prof. Dr.*,
Hacettepe University, Mathematics
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**Mert Özarar**, *Assist. Prof. Dr.*,
University of Turkish Aeronautical Assoc. CEng
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**Deniz Katırcıoğlu - Öztürk**, *Dr.*,
ICterra Inform. and Communication Tech.
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