

# Sahin Olut

Github: <https://github.com/norveclibalikci>

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## OBJECTIVE

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Senior student in Istanbul Technical University with focus on machine learning. My short term goal is to enhance my grasp on fundamental topics of computer science to build tools for humanity. However I focus on machine learning, I also have interest on various topics in computer science like web application development, functional programming, analysis and development of algorithms.

## EDUCATION

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- **Istanbul Technical University** Istanbul, Turkey  
*Bachelor of Science in Computer Engineering and Science; GPA: 3.32* Sep. 2014 – June 2019
- **Istanbul Technical University** Istanbul, Turkey  
*Minor in Applied Physics* Sep. 2017

## EXPERIENCE

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- **ITU Vision Lab.** Istanbul, Turkey  
*Undergraduate Research Member* Aug. 2017 - Present
  - Deep Learning research under guidance of Prof. Gozde Unal and her PhD students. Generative models in special.(GANs, Autoencoders etc.)
  - **Ongoing research project:** Generating Brain Modalities with GANs.
- **Virasoft** Istanbul, Turkey  
*Software Engineering Intern* June 2017 - Aug. 2017
  - Virasoft is a startup founded in 2015 September, focuses on medical imaging and digital pathology. Our goal was to improve the accuracy of deciding a tumor is malign or not.
  - **OpenCV:** Implemented some medical versions of known image processing algorithms in OpenCV.
  - **Machine Learning:** For better diagnosis results, I implemented some ML techniques(Neural nets and SVM) to product. It increased the accuracy of results by **2.5%** (from 69%)
- **ITU Computer Networks Lab.** Istanbul, Turkey  
*Volunteer* June 2016 - Aug. 2016
  - Done research about IoT Networks and Security, designed a IoT based social media project with my friends. While developing the product, Prof. Sema Oktug and RA Ahmet Aris supervised our team. Unfortunately we could not be able to finish due to lacks in resources. In addition, I worked with traffic simulators in some part of the research.

## PROJECTS

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- **ITU Enrollment Tracker** Allows students to be notified when there are seats available. It is a chat bot integrated to Facebook Messenger API. Many students(500+ in 2 days after release) have used and benefited from app. It was a holiday project but it turned out a hackathon for us, we shipped it before the start of enrollment week. Tech stack: NodeJS and MongoDB are used in back-end service. Codes are available on Github.
- **ITUnder** Peer finder app for study groups. Tech stack: React.js in front-end, Flask, PostgreSQL and NodeJS in back-end.

## SKILLS

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- **Computer Science:** Algorithms, Deep Learning, Computer Architecture, Signal Processing
- **Programming:** C, C++, Python, JavaScript, SQL, Haskell
- **Environments and Frameworks:** PyTorch, NodeJS, GNU/Linux, React.js, OpenCV, Git, L<sup>A</sup>T<sub>E</sub>X

## HOBBIES & ACTIVITIES

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- **Inzva** A non-profit hacker space in Turkey. We regularly conduct meet-ups, I am assistant in deep learning meet-ups.
- I have been playing bass for 3 years, done many gigs with my band. Also member of the board at ITU Music Club.
- Active member of ITU ACM Student Chapter.