Sahin Olut

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EDUCATION

- **Istanbul Technical University** Istanbul, Turkey
  Bachelor of Science in Computer Engineering and Science; GPA: 3.03 *Sep. 2014 – June 2019*

- **Istanbul Technical University** Istanbul, Turkey
  Minor in Applied Physics *Sep. 2017*

EXPERIENCE

- **ITU Vision Lab.** Istanbul, Turkey
  Undergraduate Research Member *Aug. 2017 - Present*
  - Deep Learning research under guidance of Prof.Dr. Gozde Unal and her PhD students. Generative models in special.(GANs, Autoencoders etc.)
  - Understanding the effects of negative images to CNN architectures.
  - Video frame interpolation 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. I was the part of software engineering team, we were implementing the algorithms created by image processing team.
  - **OpenCV:** Implemented some medical versions of known image processing algorithms in OpenCV.
  - **ViraPath:** ViraPath is the end product for doctors. I ported some parts of ViraPath to C++ from Java and added my algorithms written in OpenCV.
  - **Machine Learning:** For better diagnosis results, I tried to implement some ML techniques(Neural nets and SVM) to product. It increased the accuracy of results by 2.5% (from 69%)
  - **Dev Environment:** For C++ Qt-Creator is used. For feeding the ML architecture, QuPath is used for feature extraction. ML framework used was SKLearn.

- **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.Dr. Sema Oktug and RA Ahmet Aris supervised our team. Unfortunately we could not be able to finish. In addition, I worked with traffic simulators in some part of the research.

SKILLS

- **Computer Science**: Algorithms, Computer Architecture, Deep Learning, Signal Processing

- **Programming**: C, C++, Python, JavaScript, Java, Haskell

- **Environments and Frameworks**: PyTorch, GNU/Linux, Git, OpenCV

PROJECTS

- **ITUnder** Peer finder app for study groups. React in front-end, Flask+Node.js in back-end.
- **FPS Enhancing** Increasing the FPS rate of old films by using deep learning techniques.

HOBBIES & ACTIVITIES

- **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.