Sahin Olut

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EDUCATION

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

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

- **ITU Enrollment Tracker** Allows students to be notified when there are seats available in a class. 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, PgSQL and NodeJS in back-end.

SKILLS

- **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, LaTeX

HONORS & AWARDS

- **Getir-BiTaksi Hackathon 2018:** 3rd place with an app called 'Gotur'. Used Redis, NodeJS, MongoDB
- **Dean's High Honor List:** 2018
- **METU Computer Club 20th Programming Contest Finalist** Competed about 170 teams to qualify the final round which took place in Ankara. Questions asked in contest are about competitve programming
- **KU++ 2017 Collegiate Programming Contest Finalist** Competed about 150 contestants to pass qualification round. NP problems are asked to contestants for optimizing the solution.

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.