BERK ALP YAKICI

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EDUCATION

Rice University, Houston, TX   Expected May 2022
Bachelor of Science in Computer Science – GPA: 3.85/4.00

Koc School, Istanbul, Turkey   June 2018
International Baccalaureate Diploma Program – GPA: 93.71/100 – ACT: 35/36

WORK EXPERIENCE

CTO, Head Developer at **E-SportsTurk**, Turkey   2015 – 2018
- Co-founded E-SportsTurk (EST), an organization that ran tournaments and events for competitive video games.
- Built a totally automated tournament and match management system using Node.JS framework.

Community Manager Assistant at **Nitrado**, Turkey   2013 – 2015
- Helped customers with their products and performed regular server maintenance.

PROJECTS

CubeSat Avionics Lead at **SEDS Rice,** Rice University, Houston, TX   December 2018 - present
- Leading a team of STEM majors to build the embedded system for Rice's CubeSat.

Research Member and **Control System Lead** at **NEWT,** Rice University, Houston, TX   September 2018 - present
- Designing an automated control system for NEWT (Nanosystems Engineering Research Center for Nanotechnology-Enabled Water Treatment) systems, including reading data from various transducers, analyzing them, and creating a secure link/panel in between modules and the remote dashboard.

Avionics Engineer at **Rice Eclipse Rocket Team,** Rice University, Houston, TX   August 2018 - present
- Developing hardware and software for engine performance tests (50 and 800 LBS hybrid engines).
- Developing payloads for L1 and L2 certification rockets to analyze their performance.

Janszen Food Desert Map, Rice University, Houston, TX   September 2018
Completed at HackRice 8
- Won Indeed Challenge for solving societal problems.
- Built a website/search engine that shows whether entered location is within a food desert (where nearest supermarket that sells fresh food is at least a mile away) using Google Maps and Search API. Developed the front-end and helped build the back-end using Python, JS, CSS, and HTML.

MyDP Conference Management System, Koc School, Istanbul, Turkey   2015 – 2018
- Built a web-based panel for MUN (Model United Nations) conferences that has features like conference application management, roll calls, badge printing and validation through the database, resolution submission, printing, and verification management. The panel is built with PHP, HTML, JS, CSS, and MySQL is used for database.
- MyDP is licensed to multiple MUN conferences in Turkey.

MMS (Member Management System), Koc School, Istanbul, Turkey   2017 – 2018
- Built an internal tool for the school's MUN and EYP clubs to manage applications for the club, conference attendances as well as other administrative functions. The system is built with PHP, HTML, JS, CSS, and MySQL is used for database.

TEACHING EXPERIENCE

COMP 140, Rice University, Houston, TX   Spring 2019
- Teaching Assistant; hosting office hours and marking assignments & exams.

CS 106A, Koc School, Istanbul, Turkey   September 2018
- Taught Stanford University's CS 106A, an introduction to Computer Science, course averaged 20 students.

SKILLS

Languages: Fluent in English and Turkish; novice in German and Spanish.
Technical: JavaScript, Java, PHP, Python, SQL, HTML, CSS, FTP, SSH, Adobe Creative Cloud, Microsoft Office, Autodesk Fusion, XCode, Atom, MacOS, Windows, Linux (Ubuntu)