

# BERK ALP YAKICI

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## EDUCATION

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**Rice University**, Houston, TX Expected May 2022  
Bachelor of Science in Computer Science – GPA: 3.8/4.0

**Koc School**, Istanbul, Turkey June 2018  
International Baccalaureate Diploma Program

## WORK EXPERIENCE

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**Backend Software Engineer Intern** at **OpenStax**, Houston, TX May – August 2019

- Developed new and improved existing internal tools for the content management team such as import/export system, errata tools, and Salesforce integration; coded in Python using Django framework.
- Maintained project repositories for Content Management System (CMS).
- Implemented authentication on API requests.

**Co-Founder & 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 an automated tournament and match management server & web interface using Node.JS framework and sockets.
- Grew E-SportsTurk to become the leading tournament management platform for competitive games in Turkey.

**Community Manager Assistant** at **Nitrado**, Turkey 2013 – 2015

- Helped customers with their products and performed regular server maintenance.

## CLUBS, TEAMWORK & EXTRACURRICULAR PROJECTS

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**CubeSat Avionics Lead** at **SEDS Rice**, Rice University, Houston, TX December 2018 – present

- Leading a team of STEM majors to build the embedded control system for Rice's CubeSat.

**Avionics Testing Lead** at **Rice Eclipse Rocket Team**, Rice University, Houston, TX August 2018 – present

- Developing hardware and software for engine controllers and performance tests (50 and 800 LBS hybrid engines).
- Designing and developing payloads for L1 and L2 certification rockets to analyze their performance.

**Research Member** at **NEWT**, Rice University, Houston, TX Fall 2018, Spring 2019

- Designed proposal for 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.

**Janszen Food Desert Map**, Rice University, Houston, TX (Completed at **HackRice 8**) September 2018

- *Won Indeed Challenge for solving societal problems in HackRice 8.*
- 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 built the backend 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.
- MyDP is licensed to multiple MUN conferences in Turkey.

## TEACHING EXPERIENCE

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**COMP 140**, Rice University, Houston, TX Spring 2019, Fall 2019

- Teaching Assistant.

**CS 106A**, Koc School, Istanbul, Turkey Fall 2017, Spring 2018

- Taught Stanford University's CS 106A, an introduction to Computer Science; course averaged 20 students.

## SKILLS

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**Languages:** Fluent in English and Turkish; novice in German and Spanish.

**Technical:** Python 3, JavaScript, PHP, SQL, Web Design (HTML, CSS, Bootstrap), Server Management (FTP, SSH, Shell), Adobe Creative Cloud (Photoshop, Illustrator, InDesign, XD), Autodesk Fusion, XCode, VSCode, MacOS, Windows, Linux (Ubuntu Distribution)