

Berkay Barlas

berkaybarlas.com | berkay.barlas@outlook.com | berkaybarlas | berkaybarlas

Education

Georgia Institute of Technology (GaTech)

M.Sc COMPUTER SCIENCE

Atlanta, US

Aug 2021 - Exp. Jun 2023

Coursework: Adv. Operating Systems, Distributed Systems, Big Data Sys.

Koc University

B.S. COMPUTER ENG. MAJOR AND ELECTRICAL&ELECTRONICS ENG. DOUBLE MAJOR

Istanbul, Turkey

Oct 2015 - May 2021

Technical University of Munich (TUM) Erasmus+ Exchange student

Nanyang Technological University (NTU) Exchange student

GPA 3.8 / 4.0 | Received 100% scholarship which is given to **top 300(0.01%)** among 2 million students.

Experience

Vagon.io

Remote

Full Stack Software Developer

18 Months | Mar 2020 - Aug 2021

- Supervising and leading to Front-end team
- Maintaining Web and back-end applications using **React JavaScript, Ruby on Rails, Postgre SQL, AWS, Docker**
- Enhanced live streaming service performance **30%** using WebSocket connection and browser decoder APIs
- Slashed monthly fraud cases **80%** by implementing improved payment systems with fraud detection, prevention methods

Mozilla / Firefox Devtools

Remote

Open Source Contributor

3 Months | Jan 2020 - Mar 2020

- Identified and fixed bugs on **Github** and **Bugzilla(Phabricator)** under **Firefox** projects, mainly on **Firefox Devtools**
- Created previewer that shows the visual content of website in timeline for performance recording tool **Firefox Profiler**
- Reworked Firefox reader mode design and integrated reader specific buttons to work with browser settings

Zeplin.io (Y Combinator Start-up)

San Francisco, CA & Istanbul

Software Developer Intern

3 Months | Jun 2019 - Aug 2019

- Designed **React front end and Electron** applications and developed components that are used across all application
- Migrated Profile Pages(Account settings, Billing, Subscriptions) to **React JS** from vanilla **Javascript, HTML, CSS**
- Redesigned and reduced code redundancy and increased loading speed by around **30%** and **10%**, respectively, in Profile Pages

Trendyol.com (Alibaba Group)

Istanbul, Turkey

Software Engineering Intern

5 Months | Jul 2018 - Dec 2018

- Developed web services for seller interface of e-commerce application using **Java Spring Boot, REST API, RabbitMQ**
- Built and tested new microservice features to Seller Portal that are used for adding and tracking products in marketplace

Projects

Senior Design Project | ugrad.co

Best CS Project Award, Fall21

PRIVATE SOCIAL NETWORK FOR SCHOOLS

Mar 2021 - Jun 2021

- Led a team of 4 people to design and publish a social network for university communities that provides total anonymity
- Programmed fast and secure back-end, and designed NoSQL database models using Node.js, Express, MongoDB, and AWS

Senior Design Project | fundeus.xyz

Best EE Project Award, Spring20

EYE DISEASE CLASSIFICATION SYSTEM

Oct 2020 - Jan 2021

- Implemented Machine Learning algorithms that can classify cataract, glaucoma, and diabetic retinopathy from fundus images
- Designed the overall scalable cloud architecture and prepared front-end, back-end of the project using React, Ruby, and AWS

Extracurricular Activity

Stanford d.school | University Innovation Fellows (UIF)

Stanford University, California

UNIVERSITY INNOVATION FELLOW

Oct 2019 - Present

Concluded a 7 week-long design thinking, and innovation online education, brainstormed and launched new ideas

Planned and piloted an orientation program with faculty that aims to give new student a better overview of university

Stanford - Koc University CS Bridge Program

TEACHING ASSISTANT

Summer 2017-Summer 2018

Was **section leader** of a **Java teaching** program directed by Nick McKeown who has taught CS at Stanford for 20 years

Prepared and graded assignments, coordinated problem solving sections

Honors & Awards

2019 **Pixery Hackathon'19 Best Project Award**, Qualified **1st** among preselected 12 teams

2019 **Ciceksepeti Hackathon'19 Best Project Award**, Qualified **1st** among preselected 30 teams

2018 **Zeplin Hackathon Special Jury Award**, Awarded as most enthusiastic team to learn new concepts and tools

2015 **Ranked 273th among more than 2 million Students**, Turkish University Attainment Exam

2011 **Ranked 1st among more than 1 million Students**, Turkish High School Attainment Exam