ERHAN TEZCAN

FULL-STACK BLOCKCHAIN DEVELOPER

I build & engineer computer software; driven by a thirst for knowledge and with respect to style, standards, security, and scalability.

INFORMATION

phone	+90 539 479 77 48
email	erhany96@gmail.com
linkedin	erhan-tezcan
scholar	erhantezcan
web	erhant.me
github	erhant
birthdate	21.11.1996

LANGUAGES

Turkish **Native**
English **Advanced**

SKILLS

- TypeScript & JavaScript
- NextJS & ReactJS
- Circom
- Solidity & Huff
- NodeJS & ExpressJS
- PgSQL & Prisma
- HTML & SASS
- Go
- Python
- C & CUDA C+

HOBBIES

- Mathematics
- Cryptography
- Zero-Knowledge Proofs
- Music Curation
- Electric & Bass Guitar
- Classical Guitar
- Creative Coding
- Running

PROJECTS

For my projects, please refer to either one of the following:
- https://github.com/erhant
- https://erhant.me/projects

WORK EXPERIENCE

FIRSTBATCH
Full-time Blockchain Developer
Istanbul, Turkey
Feb. 2023 - present

Working on multiple fronts with special interest on applications of Zero-Knowledge Cryptography.

DYNASTY STUDIOS
Full-time Blockchain Developer
Istanbul, Turkey
Aug. 2022 - Jan. 2023

Developed UI for an ERC-2535 implementation. Worked on a novel gaming-based token implementation. Implemented a wallet-based authN-server in Go.

MACERITA
Self-employed Full-stack Developer
Istanbul, Turkey
Mar. 2022 - Jun. 2022

I worked on building the frontend & backend using TypeScript, NextJS, Express, and PgSQL via Prisma ORM. Used AWS EC2 for hosting.

KOÇ UNIVERSITY
Full-time Graduate Research & Teaching Assistant
Istanbul, Turkey
Sep. 2019 - Feb. 2022

As a member of ParCoreLab under the advisory of Dr. Didem Unat, I researched SpMV optimizations on NVIDIA GPUs using mixed-precision techniques. The work was partly supported by the SparCity project. Used CUDA C++, Python. I was a TA for Parallel Programming, Programming Language Concepts, and Senior Project.

SOCIABLE, INC.
Full-time Backend Developer
Istanbul, Turkey
Jul. 2018 - Sep. 2018

I have implemented additional modules in a NodeJS express backend, with external API usages and unit tests. Used JavaScript and MongoDB.

ATA TECHNOLOGY PLATFORMS (ATP)
Part-time Software Specialist
Istanbul, Turkey
Sep. 2016 - Apr. 2017

I worked under CRM-department with partial support to IoT department. Used C# and T-SQL.

EDUCATION

KOÇ UNIVERSITY
M.Sc. Computer Science & Engineering
Istanbul, Turkey
Sep. 2019 - Feb. 2022

Graduated with High Honors, 3.93 / 4.00 GPA
M.Sc. Thesis: **Exploring Mixed and Multi-Precision SpMV for GPUs**

WARSAW UNIVERSITY OF TECHNOLOGY
Erasmus+ Exchange Computer Engineering
Warsaw, Poland
Feb. 2018 - Jun. 2018

YILDIZ TECHNICAL UNIVERSITY
B.Sc. Computer Engineering
Istanbul, Turkey
Sep. 2014 - Feb. 2019

Graduated with High Honors, 3.54 / 4.00 GPA

PUBLICATIONS

- **Erhan Tezcan**, Tugba Torun, Fahrican Koşar, Kamer Kaya, and Didem Unat. *"Mixed and Multi-Precision SpMV for GPUs with Row-wise Precision Selection",* IEEE 34th International Symposium on Computer Architecture and High-Performance Computing (SBAC-PAD'22), Nov. 2-5, 2022, Bordeaux, France. **Received the Best Paper Award**

- Muhammet Abdullah Soytürk, Palwisha Akhtar, **Erhan Tezcan**, and Didem Unat, *"Monitoring Collective Communication Among GPUs"*, European Conference on Parallel Processing, 2022

- Palwisha Akhtar, **Erhan Tezcan**, Fareed Mohammad Qararyah, Didem Unat, *"ComScribe: Identifying Intra-node GPU Communication"*, BENCH'20, November 2020

- **Erhan Tezcan**. *"A Lighthouse Illumination Problem"*, arXiv preprint arXiv:1903.09001, Mar. 2019

- **Erhan Tezcan**. *"On Collatz Conjecture"*, arXiv preprint arXiv:1902.07312, Feb. 2019