

Ege Erdoğan ege@erdogan.dev | [linkedin/ege-erdogan](https://www.linkedin.com/in/ege-erdogan) | [github/ege-erdogan](https://github.com/ege-erdogan)

Updated December 18, 2020. See erdogan.dev/resume for latest version.

EDUCATION

Koç University (GPA: 3.46)

Double major in Computer Engineering & Mathematics

Cryptography, Security, and Theory specialization program

Dean's Honor Roll (3 semesters) and Vehbi Koc Scholar (1 semester) for academic achievement.

Istanbul, Turkey

2017 – Present

Üsküdar American Academy

High School

Istanbul, Turkey

2012 – 2017

EXPERIENCE

Undergraduate Teaching Assistant

Koç University

- Conducting weekly lab sessions, holding weekly office hours, and helping grade assignments for the *Introduction to Programming with Python* course.

Sep. 2020 – Present

Istanbul, Turkey

Research Intern

Koç University

- Supervisor:** Assoc. Prof. Alptekin Küpçü
- Working on a research project concerning the security of privacy-preserving machine learning technologies.
- Using Python and various ML libraries to implement privacy-preserving machine learning methods and attacks against them.

July 2020 – Present

Istanbul, Turkey

Software Development Intern

Proteams

- Implemented features for different parts of a mobile application, including its back-end server, database, and admin panel.
- Worked with Java and the Spring framework for the backend, PostgreSQL for the database, and Angular for the admin panel.

July 2020 – Aug. 2020

Istanbul, Turkey

Summer Intern

IBM

- Worked within the IBM Cloud & Cognitive team.
- Built a chatbot to answer questions by IBM new hires as a group with the other interns.
- Developed a music generation system using neural networks and built a web interface for it with the other interns. Worked with Python for machine learning and web development.

July 2019

Istanbul, Turkey

Software Development Intern

Bitlo Cryptocurrency Exchange

- Started learning and gained experience using the Spring framework to build web applications. Gained practice with the Java language.

Feb. 2018 – April 2018

Istanbul, Turkey

PROJECTS

Brick-breaking Game | *Java, Swing, MongoDB*

- Developed a brick-breaking game as a group of 5 for the Software Engineering course at Koc University.
- Worked with Java Swing libraries for the visuals, and used MongoDB to save user statistics and save games.
- Gained experience with software development tools and methodologies such as agile development, UML diagrams, and design patterns.

Web-based News Reader | *Ruby, Ruby on Rails, JavaScript*

- Developed a web-based reader scraping and displaying content from Hacker News, Slashdot, and the r/programming subreddit as a solo project.

Course Projects

- Various course projects including Computer Networks, Operating Systems, and Digital Design courses among others can be found at <https://github.com/ege-erdogan/coursework>.

ACTIVITIES

Volunteer | *Koc University Entrepreneurship Society*

2019-2020

- Volunteered as a mentor for the *Zero to One* entrepreneurship conference.
- Worked in the organization of the conference and was responsible of a group of guests on event day.

Member | *Uskudar American Academy Percussion Group*

2013-2017

- Was a member of the UAA percussion group.
- Participated in various concerts with the group in Belgium, Ankara, Izmir, and Istanbul.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, Ruby, C, Scheme

Frameworks/Libraries

Machine learning: PyTorch, Numpy, Matplotlib, scikit-learn

Web: Ruby on Rails, Spring, Bootstrap

Tools/Platforms: Git, UML, AWS, IBM Cloud, design patterns

Areas of interest: Machine learning, cryptography, web development, computer networks, theoretical CS