

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

Updated January 27, 2021. See [erdogan.dev/resume](https://www.erdogan.dev/resume) for latest version.

## EDUCATION

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### Koç University (GPA: 3.53/4)

*Double major in Computer Engineering & Mathematics*

*Cryptography, Security, and Theory specialization program (3.88/4)*

*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

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### Research Intern

*Koç University*

July 2020 – Present

*Istanbul, Turkey*

- **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.

### Undergraduate Teaching Assistant

*Koç University*

Sep. 2020 – Jan. 2021

*Istanbul, Turkey*

- Conducted weekly problem solving sessions and held office hours for the *Introduction to Programming with Python* course during the Fall 2020 semester.

### Software Development Intern

*Proteams*

July 2020 – Aug. 2020

*Istanbul, Turkey*

- 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.

### Summer Intern

*IBM*

July 2019

*Istanbul, Turkey*

- 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.

### Software Development Intern

*Bitlo Cryptocurrency Exchange*

Feb. 2018 – April 2018

*Istanbul, Turkey*

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

## PROJECTS

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### 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

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**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

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**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