

Eren Dogan  
Fort Lee, NJ  
[ErenBerkeDogan@gmail.com](mailto:ErenBerkeDogan@gmail.com) - (201) 724-4539

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*Highly motivated and dedicated to software development. Strong academic background and outstanding grades. A quick learner, adaptable team player, and effective communicator driven by a passion for continuous growth and innovation in coding.*

*Github:* <https://github.com/B3rK-3>

### **Professional Experience:**

#### **Marmara Hotel**

*Server* April 2024 - Present

- Greeted and assisted guests in a professional and friendly manner, ensuring a positive dining experience
- Addressed and resolved guest concerns or complaints promptly and professionally
- Collaborated with kitchen staff and other servers to ensure smooth operations
- Managed multiple tables simultaneously, balancing efficient service

#### **Boost Hacks NPO**

*Founder* May 2023 - Present

- Engaged with industry giants to allow for a platform of friendly competition
- Played a pivotal role in securing funding by liaising with various companies
- Fostered a collaborative environment by organizing hackathons and coding events
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#### **Yale University**

*Researcher, Data Analyst* June 2023 – Present

- Developed robust brain scan analysis script using Python libraries like NumPy, Nilearn, and pandas
- Worked under the guidance of Assistant Professor Dr. Ilker Yildirim
- Utilized clusters and Jupyter Notebooks to perform complex data analysis
- Invited to continue my work in the 2024 summer

#### **Paysody Inc.**

*Intern* April 2023 - May 2023

- Enhanced the performance of current POS systems through meticulous analysis and testing
- Worked on commercial POS software, focusing on user interface and backend
- Performed in-depth data analysis to identify and rectify system inefficiencies
- Conducted pre-release testing of system features ensuring bug-free deployments
- Aided in the setup of POS systems at customer sites to ensure smooth operations

#### **Soccer Coliseum**

*Cashier/Sales Associate* August 2022 - September 2022

- Efficiently handled cash register operations and payment processing
- Monitored inventory, and alerted management to low-stock situations
- Collaborated with the team to manage workflow and customer flow during peak hours

### **Education:**

**New Jersey Institute of Technology (2024-2028)**

**Computer Science Major**

**GPA:** N/A

**Fort Lee High School (2021-2024) (Graduating in Three Years)**

**GPA:** 4.29 out of 4

### **Projects:**

- **Boost Hacks Website (React JS)**
  - Designed a responsive user interface, ensuring compatibility across devices and screen sizes, to reach a broader audience
  - Implemented continuous, deployment using Github Actions, facilitating seamless updates and maintenance
  - Conducted user testing sessions to gather feedback
- **Custom Chess Engine (Python)**
  - Created a 2 player Chess platform run locally on any computer, implementing complex algorithms

- o Developed the engine with over 700 lines of code in python, focusing on efficient and accurate game mechanics (naive and complex algorithms)
- o Currently working on adding custom-trained AI to compete within the engine, using machine learning techniques to develop competitive gameplay
- **Fast File Browser (C++ & Dart/Flutter)**
  - o Working to create a fast file browser using multithreading and file indexing
  - o Implemented an algorithm able to browse 100,000 subfolders in under 25 seconds
  - o Working on utilizing JSON to implement file indexing with the simdjson and nlohmann JSON libraries
  - o Studying to create a windows gui application with flutter/dart and calling c++ file from dart
- **Indie Game (Reaper Run)**
  - o Designing and developing a platformer speedrun game using the Godot game engine, learning GDScript from scratch
  - o Utilized player animations to make a smooth gameplay
  - o Implemented intricate gameplay mechanics such as obstacles, and tiers to enhance gameplay
  - o Focused on creating an intuitive and responsive user experience

***Skills:***

Python ● HTML/CSS ● Bootstrap/Tailwindcss ● C++, C ● JavaScript/React ●  
Github/Git ● Strong communication ● Team-oriented ● Creative  
problem-solving ● Detail oriented ● Quick learning ● Creative