Kenny Zhu

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Current Active Interim Security Clearance

Education

University of Maryland, College Park — College Park, MD

Bachelor of Science in Computer Science; — *Expected Graduation: May 2026*

- **Relevant Coursework:** Object Oriented Programming, Algorithms, Intro to Computer Systems, Discrete Mathematics, Linear Algebra
- **GPA**: 3.5/4.0

Experience

Software Engineering Intern — Jun 2024 - Aug 2024

ASRC Federal/TRMC — *Yuma, AZ*

- **Overview:** Contributed to the development of mission-critical software applications for Yuma Proving Ground used by over 2,000 people.
- **REST API:** Implemented a test event REST API to help streamline data across all of Yuma Proving Ground's enterprise software applications
- **Export to Outlook:** Implemented a feature to export test event data to a custom CSV, allowing users to import data into their outlook calendar.
- Used **C#, .NET, JavaScript, Kendo** and followed **Agile development practices**.
- **Computer Vision:** Developed and tested an experimental convolutional neural network (CNN) for detecting defective armor plates.

Software Engineer — Aug. 2023 - Jan. 2024

UMCP Gaming

- **Project Overview:** Developed a SignalR live lobby web application for UMD's gaming club, featuring a C# MVC backend and a frontend designed in Angular.
- **Data Transfer Object (DTO):** Implemented DTOs to transfer user name and avatar URL data from a MongoDB backend to the Angular frontend, with added methods to retrieve data via the Steam API when necessary.
- **REST API:** Created REST API POST requests for the frontend to access specific user data, returning DTOs using record classes.
- **Testing:** Conducted extensive testing on the development server prior to production deployment.

Sustainability Analytics Research Assistant (GitHub) — Aug. 2022 - Dec. 2023

University of Maryland — *College Park, MD*

- **Greenspace Data Collection:** Analyzed NASA Earth NDVI data (2000-2016) to assess greenspace changes before and after the construction of the Lynx Blue Line in Charlotte, NC.
- **Pollution Analysis:** Identified a significant reduction in PM2.5 levels by comparing pre- and post-construction data. Published findings on GitHub and presented at the FIRE Summit, University of Maryland.

Projects

AnimeDoro Timer (Github) | *NodeJS, React, Firebase, JavaScript, HTML, CSS* — Jun. 2023 - Aug 2023

- Full stack app functioning as a Pomodoro timer and anime list tracker, used for myself to keep track of anime watched between breaks.
- **Authentication:** Integrated Google Login via Firebase Authentication, allowing users to sign in to the app using their Google credentials. Additionally managed user data in Firebase, utilizing a unique ID for each user.
- **CRUD:** Enabled users to execute CRUD operations on their anime lists, including the capability to increment episodes watched, delete anime entries, and add new anime titles.

Technical Skills

Languages: Java, Python, Javascript, SQL (SSMS), R, C, C#
Frameworks: React, Node.js, Angular
Developer Tools: Git, Docker, Azure DevOps, Visual Studio
Libraries: PyTorch, ggplot, NumPy, pandas