# Kenta **Yoshii**

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## Education

**Brown University**                                                            *Providence, Rhode Island*

PROSPECTIVE B.A. DEGREE IN COMPUTER SCIENCE AND EAST ASIAN STUDIES                 *Aug, 2020 - Exp. Mar, 2024*

- Sc.B. Computer Science
- Relevant courses: Discrete Mathematics, Introduction to Software Programming, Introduction to Computer Systems,Machine Learning, Computer Vision, Data Science, Deep Learning-grad level, Computer Networks, Programming Languages, Multi-processor Synchronization, Software Security, Operating Systems, Distributed Systems, Applied Cryptography, Compilers, Databases Management Systems, Artificial Intelligence, Privacy-Conscious Computer Systems

## Work Experience

**Bloomberg L.P.**                                                                      *Tokyo, Japan*

SOFTWARE ENGINEER INTERN                                                           *June 2023 - Aug 2023*

- Implemented a reusable parser pipeline component that fits into a modern company framework to be used in production
- Achieved a **150%** overall speedup when processing market data when compared to the previous component

**Hennge**                                                                             *Tokyo, Japan*

SOFTWARE ENGINEER INTERN                                                           *May 2023 - June 2023*

- Implemented real-time and scalable messaging cloud applications to be used in internal communication tool
- Developed using SaaS, SSO, PWA and DevOps pipeline

**Sony Interactive Entertainment**                                                     *Tokyo, Japan*

SOFTWARE ENGINEER INTERN                                                           *May 2022 - Aug 2022*

- Implemented working prototype of new messaging feature to be added to the PlayStation Network using MERN stack
- Worked in an agile scrum team of 6 to define scope of feature, design mockups, and implement both the interface and the backend.

**Teaching Assistant**                                                         *Providence, Rhode Island*

TEACHING ASSISTANT                                                                 *Aug 2021 - PRESENT*

- Teaching Assistant for introductory Japanese language class (JAPN0100 and JAPN0200)
- Teaching Assistant for Data Structures and Algorithms (CS0200)
- Teaching Assistant for Computer Networks(CS1680)

## Projects

**IP/TCP**                                                                     *Providence, Rhode Island*

VIRTUAL IP/TCP NETWORK                                                                    *Golang*

- Built fully functioning **Virtual IP network** by using UDP to simulate a link layer, IP forwarding, and dynamic routing.
- Implemented **Traceroute** and **Routing Aggregation** for scaling
- Built fully functioning **TCP layer** on top of the said IP implementation
- Achieved **3.94MB/s** throughput with **tahoe** congestion control algorithm

**Weenix**                                                                     *Providence, Rhode Island*

WEENIX OPERATING SYSTEM                                                                      *C*

- Weenix is a simple Operating System which is a miniature of Linux
- Built an OS kernel in C with a **scheduler**, **TTY driver**, **file system (S5FS)**, and **virtual memory**

**MoDiST**                                                                     *Providence, Rhode Island*

MODULAR DISTRIBUTED SYSTEMS                                                           *Golang, gRPC*

- Built a distributed Key-Value store with various distributed systems feature
- Features included **leaderless replication**, **conflict resolution**, **sharding**, **Tapestry routing**, and **Raft consensus algorithm**

## Skills

**Programming/Scripting**    Java, Go, Python, C, C++, JavaScript, TypeScript, Rust, SQL, Bash