

Yaeji Shin

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EDUCATION

- **Johns Hopkins University** - M.S. in Computer Science **December 2024**
- **University of Maryland** - B.S. in Computer Science & Minor in Music Performance **May 2021**

EXPERIENCE

Johns Hopkins Applied Physics Laboratory - *Software Engineer* **June 2023 - Current**

- Led the design, development, and deployment of a Python-based fusion processor for military applications, improving data accuracy and streamlining transmission. Served as subject matter expert during on-site deployment, ensuring successful integration and meeting mission-critical requirements.
- Implemented a frontend GUI in Angular for managing configuration files and monitoring Kafka/MongoDB connections, collaborating with a stakeholder and designer to enhance user workflows and system visibility.
- Orchestrated the integration of Keycloak for database authentication, overseeing design, implementation, and iterative enhancements to ensure secure and efficient data access across multiple domains.
- Mentored and led junior engineers and interns, providing technical guidance, conducting code reviews, fostering best practices for scalable development, and participating in interview panels to identify and recruit engineers.

PayPal - *Software Engineer* **June 2021 - June 2023**

- Designed and implemented a REST API using Java and Spring Boot, improving credit card transaction consistency, speed, and reliability, and reducing processing time by 10%.
- Monitored and ensured seamless production deployments via custom dashboards (Splunk) and API verifications, reducing system downtime and ensuring continuous operation.
- Refactored 50% of redundant code, improving scalability and system stability, and decreased test execution time by 10x using mocked external dependencies.

Neotag - *Software Developer Intern* **January 2021 - June 2021**

- Developed a VueJS dashboard connected to an ExpressJS REST API, adding error handling for stability.

University of Maryland - *Research Assistant* **March 2021 - June 2021**

- Optimized a Python web scraper, achieving a 67x improvement in performance and significantly reducing processing time.

PROJECTS

Online Farmer's Market **May 2024**

- Built an Angular application with Firebase Authentication and Realtime Database.

XRPL Hackathon **August 2023**

- Developed an Angular application for collaborative savings accounts.

PayPal Credit Hackathon (Team Lead) **July 2022**

- Designed and implemented a backend system for earning and redeeming reward points.

PayPal Credit Hackathon (2nd place in division) **July 2021**

- Developed React components to simplify credit card application processes.

VOLUNTEER ACTIVITIES

Johns Hopkins STEM Program - *Mentor* **October 2023 - May 2024**

- Mentored a high school senior in building a frontend component, focusing on coding practices and project management.

PayPal Idealab - *Web Developer* **November 2021 - February 2023**

- Onboarded new developers through training sessions and fostered collaboration for smooth team integration.

Girls Who Code - *Teaching Assistant* **Spring 2020**

- Guided middle school students in developing Python skills, encouraging coding and problem-solving.

SKILLS

- **Languages & Frameworks:** Java, Python, JavaScript, SQL, Spring, Angular, Node.js, Mockito, Junit
- **Tools & Concepts:** Maven, Docker, Jenkins, CI/CD, Git, Splunk, Agile, Scrum, Hadoop, AWS