# HYUN LEE

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## EDUCATION

**University of Virginia**                                                            **August 2021 - May 2025**
*Bachelor's, Computer Science*                                                                        *GPA: 3.2*
  - Relevant Coursework: Data Structure and Algorithms, Computer Systems and Organization, and Network Security

**Johnson County Community College**                                        **August 2018 - May 2021**
*Associate's, Computer Science*                                                                      *GPA: 3.75*

## PROFESSIONAL EXPERIENCE

**TRTCLE**                                                                                              **Remote**
*Website Coordinator Intern*                                                         *January 2025 - May 2025*
  - Increased data processing efficiency by 35% through automated Excel workflow templates, streamlining CLE program compliance processes.
  - Maintained and updated a 300+ course portfolio, ensuring 100% accuracy and relevance, positively impacting course enrollment and client retention.
  - Collaborated in a 5-person agile development team to enhance website content and functionality, improving the user experience for thousands of legal professionals.

**The Catholic University of Korea, Seoul St. Mary's Hospital**                          **Remote**
*Software Engineer Intern*                                                          *June 2024 - December 2024*
  - Deployed a Spring Boot hybrid app for web and mobile, enabling colorectal surgery staff to digitally document ERAS protocols.
  - Automated export of 100+ weekly patient records to Excel, cutting manual data entry by 65% and improving data accuracy.
  - Improved patient record retrieval performance by introducing database indexing, cutting query latency by 40%.
  - Achieved zero downtime deployments by implementing a Blue/Green deployment strategy with GitHub Actions and Go scripts, ensuring uninterrupted hospital operations.
  - Applied Domain-Driven Design (DDD) to structure medical processes, improving scalability and reducing codebase size by 25%.

## PROJECTS & OUTSIDE EXPERIENCE

**Toss**                                                                               *March 2025 - Present*
*Full Stack Developer*
  - Integrated Kafka Sink Connector to enable real-time synchronization across distributed services and databases, improving data consistency and system reliability.
  - Ensured transactional integrity with pessimistic locking in high-concurrency operations and secured scalable stateless APIs with JWT + OAuth2 authentication.
  - Utilized AWS Lambda to generate and deliver PDF billing statements in 2 seconds, improving customer self-service efficiency.

**Menteetor**                                                                        *January 2024 - June 2024*
*Backend Developer*
  - Developed a mentorship matching platform for 309 Korean universities, implementing university email authentication for secure, student-only access.
  - Achieved a 60% increase in chat delivery speed by isolating chat data from the primary database and leveraging Redis, while reducing redundant API calls by 25% by migrating to WebSocket-based real-time messaging.
  - Built a real-time logging and monitoring system using ELK and Spring AOP, lowering AWS server costs by 40% while improving system reliability.

## SKILLS

**Languages & Frameworks:** Java, Kotlin, Spring, HTML/CSS, JavaScript, TypeScript, React, Nest.js, Angular
**Database:** MySQL, PostgreSQL, MongoDB, Redis
**Tools & Version Control :** Git, Linux/Unix, CI/CD, REST APIs, Docker, Apache Kafka, JUnit, Kubernetes
**Certifications:** AWS Certified Developer – Associate, AWS Certified DevOps Engineer - Professional

## LEADERSHIP EXPERIENCE

**Republic of Korea Marine Corp** - Artilleryman, Assistant Drill Instructor                    *Feb 2022 - Aug 2023*
• Instructed approximately 150 new recruits over six months, training 20-30 recruits per month to support their adaptation.
• Collaborated as a gunner in a 6-member K-9 self-propelled howitzer team, executing fire missions with precision.