

You-Kwhan Kim

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EXPERIENCE

Full Stack Engineer

June 2024 – Dec. 2025

Prime Therapeutics

Eagan, MN (Remote)

- Developed a full-stack modernization of the Pharmacy Benefit Management Application (PBMA) to a cloud-native architecture using Angular, Spring Boot, and AWS, significantly reducing plan configuration time for the Benefit Management team.
- Engineered the "Network Pricing" and "Rule Copy" modules using RxJS forms and JPA/Hibernate to map non-persistent UI data to Oracle backends, automating rule replication and eliminating over 15 hours of weekly manual data entry.
- Architected RESTful APIs for the "Medi-Cal Mass Adjustment" initiative to deep-clone complex claim entities with 100% data integrity, enabling the finance team to successfully meet critical regulatory funding deadlines.

Software Engineer Associate

Feb. 2024 – June 2024

Dev10

Minneapolis, MN (Remote)

- Secured a position in a highly selective (<5% acceptance) residency, mastering enterprise-grade Java, Spring Boot, and React through immersive 2-week Agile sprints that simulated real-world production cycles.
- Developed "ReelSkill," a full-stack learning application, by implementing a custom spaced-repetition algorithm and MRU Cache strategy in Java to prioritize content review and optimize data lookup speeds.

Full Stack Web Developer

Sept. 2023 – Jan. 2024

Freelance

White Plains, NY

- Delivered responsive React and TypeScript web solutions for small businesses, implementing Framer Motion animations and SEO strategies that increased search visibility and user engagement.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Libraries: Spring Boot, Angular, React.js, Tailwind CSS

Tools & Platforms: AWS, Oracle (Toad), Git/Github, Firebase, Figma, Postman

Certifications: AWS Certified Cloud Practitioner

PROJECTS

TradeView | *Java, Spring Boot, WebFlux, MySQL*

In Progress | [GitHub](#)

- Developing a stock tracking application with RESTful API using Spring WebFlux to consume real-time market data from the Alpha Vantage API.
- Implementing a database-first caching strategy using Spring Data JPA to reduce external API latency and improve response times

Reef Reviver | *InnovateIT Hackathon*

[Reef Reviver](#)

First Place Winner

Stony Brook, NY

Awarded "Best First Time Hacker" out of 40 participants at Stony Brook University's InnovateIT Hackathon.

- Assessed global issues related to rising coral reef temperatures within a 24-hour timeframe and proposed a network of floating devices to cool and create safe zones for reef adaptation, anticipating a 40% revenue increase.
- Developed conceptual designs using Autodesk Inventor and created prototypes. Evaluated power and cooling systems, business model, timescale, and management to ensure optimal performance and cost-effectiveness.

EDUCATION

STONY BROOK UNIVERSITY

Stony Brook, NY

Bachelor of Science in Applied Mathematics & Statistics, and Economics | Dean's List 2018 - 2022

Sept 2018 - May 2022

Courses: Data Structures and Algorithms, Object-Oriented Programming (Java), Graph Theory, Discrete Math,

Data Analytics, Statistical Programming, Data Science and Machine Learning, Linear Algebra