

# Kalp Kumar Shah

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## SKILLS

- **Languages:** C/C++, C#, Python, Java, JavaScript, TypeScript, SQL
- **Technologies & Tools:** ReactJS, Node.js, Angular, Spring Boot, Django, Git, Docker, Azure, AWS, EC2, S3, Lambda, Elasticsearch, Kubernetes, Jenkins, MySQL, MongoDB, DynamoDB

## WORK EXPERIENCE

**HeadStarter, Remote:** *Software Engineering Fellow* 06/2024 - 09/2024

- Engineered an AI-powered chatbot using Python, React.js, and Node.js, increasing user engagement by 15% and improving average session duration by 10% across the platform.
- Developed full-stack applications integrating machine learning models, enhancing overall platform functionality and user experience while optimizing data processing capabilities.
- Led weekly hackathons applying agile methodologies, delivering 3 MVPs addressing real-world problems in healthcare, finance, and education sectors.

**IT Expert Systems, Schaumburg:** *Full Stack Software Engineering Intern* 05/2023 - 08/2023

- Spearheaded website modernization using React.js, Node.js, and Python, reducing page load times by 20% and improving overall user experience across devices.
- Implemented an AI-powered customer support system with NLP, improving first-response time for queries by 30% and increasing satisfaction scores by 25%.
- Optimized backend operations and database queries, resulting in a 25% enhancement in system performance and stability under increased user load.

**ID Tech Camps, Chicago:** *Game Developer Intern* 05/2022 - 12/2022

- Developed mods and plugins for Minecraft (Java) and Roblox (Lua), implementing advanced gameplay mechanics for 5000+ concurrent players.
- Implemented cross-platform features and optimized game performance, achieving 15% improvement in efficiency across multiple gaming environments.
- Mentored junior developers in Java and Lua, conducting code reviews and workshops, improving team productivity by 20% over the internship period.

**University of Illinois, Chicago:** *Teaching Assistant for CS 211: Programming Practicum* 08/2021 - 12/2023

- Facilitated learning of advanced C++ programming concepts for over 250 students, contributing to a 10% improvement in overall class performance.
- Designed and conducted hands-on lab sessions focusing on critical topics such as pointers, memory management, and object-oriented programming.
- Collaborated on course material development and grading processes, streamlining feedback delivery and reducing grading turn around time by 25%.

**Hindustan Coca-Cola Beverages Pvt. Ltd, India:** *Software Engineering Co-op* 06/2018 - 07/2019

- Developed a supply chain management system using Java and SQL, optimizing inventory tracking for 100+ distribution centers and reducing overstock by 15%.
- Implemented data visualization features with D3.js and React, creating interactive dashboards that improved decision-making for regional managers.
- Participated in Agile practices, daily stand-ups and bi-weekly sprints, contributing to timely delivery of project milestones.

## EDUCATION

**Georgia Institute of Technology (GATech)** | Atlanta, GA 01/2025 - 06/2026  
*M.S. Computer Science*

**University of Illinois, Chicago (UIC)** | Chicago, IL 08/2020 - 12/2023  
*B.S. Computer Science, Minor: Mathematics*

- **Honors:** Honors College (Aug 2020 - Spring 2022), Dean's List (Fall 2022, Spring 2022, Fall 2023)
- **Relevant Coursework:** Data Structures, Computer Algorithms, Operating Systems, Artificial Intelligence, Software Engineering, Object-Oriented Programming, Computer Vision, Database Systems.

## PROJECT

- **GamersHUB - E-Commerce Platform:** Developed a full-stack e-commerce platform for gaming products using the MERN stack. Implemented user authentication, product catalog, shopping cart, real-time inventory management, and a review system. Integrated secure payment processing and deployed on AWS with CI/CD pipelines, achieving a 30% increase in average session duration during testing.
- **AI-based Image Classification and Puzzle Solver:** Developed a CNN-based YouTube thumbnail classifier with 81% accuracy using SIFT and TensorFlow. Implemented a 15-puzzle solver using heuristic functions, reducing solution time by 40%. Created an interactive visualization tool for algorithm understanding, enhancing learning experience for 500+ users and demonstrating proficiency in AI and machine learning techniques.

## CERTIFICATION

- Microsoft Azure Fundamentals (AZ-900)
- React Developer Certification