ARMAAN GUPTA

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SUMMARY

Versatile software engineer with a track record of building scalable applications, optimizing enterprise APIs, and modernizing Java, JavaScript, and cloud-native architectures. Passionate about technology leadership and engineering management, with experience driving security, performance, and AI-driven innovation while mentoring teams and fostering cross-functional collaboration.

WORK EXPERIENCE

Software Engineer — John Deere, Enterprise Customer Data - June 2024 - Present
- Managed a 7.6 million customer record data pipeline, optimizing it for speed to save ??
- Modernized legacy systems, resolving 250+ security vulnerabilities across Java and JavaScript codebases, strengthening application security and compliance.
- Delivered key enhancements to John Deere Financial's enterprise customer API, optimizing synchronization with John Deere Global Data, resulting in increased data accuracy and faster customer workflows.
- Diagnosed and optimized a mission-critical analytics platform for tracking software performance and infrastructure health, improving system uptime and reliability.
- Partnered with cross-functional teams to enhance API performance, reducing response times and improving system resilience.

Software Engineer — John Deere Financial, CyCloud - Nov 2022 - May 2024
- Engineered and maintained full-stack JavaScript applications, integrating modern frameworks to enhance user experience and system reliability.
- Developed a security access control management system, reducing manual workload for managers, saving over $70,000 for the company in the first year.
- Conducted in-depth research on full-stack TypeScript frameworks, identifying scalable solutions and influencing technology adoption for future development at Deere.

Lead Engineer and Founder — DocuVet - Oct 2023 - January 2025
- Architected and led development of scalable, production-ready APIs and cross-platform applications for iOS, Android, and web, ensuring synchronization and real-time data processing.
- Implemented a serverless infrastructure with AWS and Flask, optimizing cost and achieving sub-second response times for AI-driven transcription and data entry.
- Led a team of 2 engineers, overseeing end-to-end system architecture, database design (PostgreSQL), and CI/CD pipelines for rapid deployment and iteration.
- Developed an AI fine-tuning workflow to improve transcription accuracy for medical terminology, enhancing model performance based on real-world veterinary data.

Hackathon Organizer — Kreative Horizon - Nov 2019 - May 2024
- Organized Iowa's second-largest hackathon at Iowa State University, hosting 140+ students from 6 Midwestern schools, fostering practical tech skills.
- Launched Des Moines' first student hackathon and Iowa's first "data-thon," driving student engagement in Software Engineering, Data Science, MIS, and Business Analytics.
- Secured $30,000 in sponsorships from Microsoft, Linode, Roboflow, Visionary, and Zirous.
- Scaled reach across 3 states, creating a thriving community of students in technology.

EDUCATION

Iowa State University *B.S. in Management Information Systems, Minor in Marketing.*

SKILLS

Typescript, React, Next.js, Node.js, Python, TailwindCSS, PostgreSQL, AWS, Git/GitHub, Jenkins, Java, Springboot, Leadership, Ethical Sales, Microsoft Office, Communication.

LEADERSHIP

Treasurer & Board Member, dsmHack

Board Member, Ames Writers Collective

AWARDS & FEATURES

Innovation Iowa Magazine, July 2024

Okoboji Entrepreneurial Institute Cohort 16, July 2022

CyStarters Cohort 7, May 2022

Eagle Scout Rank, Boy Scouts of America - October 2018

PROJECTS

Kreative ID, authentication & identity management with Typescript, Next.js, Nest.js, PostgreSQL.

Kreative Hyperlink, URL shortener with Typescript, Next.js, Nest.js, PostgreSQL.