

Kanishk Gupta

kanishk.n.gupta@gmail.com | Danville, CA | [LinkedIn](#) | [Portfolio](#) | DOE Q Clearance

SUMMARY

Software Developer with experience building real-time applications and modernizing mission-critical enterprise systems. Strong background in full-stack development and system architecture across C#, React, and SQL. Proven ability to own complex projects end-to-end and deliver reliable production software.

WORK EXPERIENCE

Y-12 National Security Complex, Oak Ridge, TN

Sept 2023 - Present

Software Developer, Senior Associate

- Led end-to-end development of a real-time console application integrating four TCP camera systems across partitioned networks
 - Architected event-driven system and relational database schema to track vehicle traffic
 - Enabled automated risk-based inspections, cutting manual monitoring and response times by 20%
- Modernized a mission-critical outage planning system for essential utilities and services, improving reliability and maintainability for daily operational use
 - Refactored legacy monolithic ASPX module into layered CQRS architecture and React front-end
 - Reengineered complex authorization and validation logic across 12 outage statuses and 25 actions
- Delivered integrated Fire Protection solutions, independently building two modules, to optimize management of non-compliance issues and temporary fire protection activities
- Reduced Webpack build times by 125× (30 minutes to 12 seconds) and cut front-end bundle size by 23% through targeted build and dependency optimizations
- Introduced Strategy and Factory patterns to improve code extensibility and long-term maintainability
- Mentored junior engineers and interns on system design, architecture, and debugging best practices
- Served as a primary POC, gathering requirements and feedback from customers and SMEs, and collaborating cross-functionally to address organization-wide tooling and onboarding challenges
- Awards: Special Recognition (2024, 2025); Spotlight on Excellence (2024)

Myntor Inc., Berkeley, CA

Feb 2021 - Aug 2021

Software Engineering Intern

- Developed a Django app with a custom WYSIWYG math equation editor and whiteboard recording platform for writing math questions, improving content creation efficiency by 40%
- Coordinated a team of 5 ICs to deliver 1000+ math questions and video walkthroughs for 3 courses

TECHNICAL SKILLS

Languages: C#, Javascript/Typescript, SQL, HTML, CSS/SCSS, Java, Python

Frameworks: React.JS, Autofac, Entity Framework, NSubstitute, Django, Flask

Tools: Azure DevOps, Webpack, Postman, Toad for Oracle, SQL Developer, Git

EDUCATION

University of California, San Diego

June 2023

Bachelors of Science - *Mathematics and Computer Science*

GPA: 3.76

LEADERSHIP

Y-12 Asian & Pacific-American Affinity Group, President & Co-Founder

May 2024 - Present

- Pitched the group to C-suite and organized 12 social and professional development events

University of California, San Diego, Resident Advisor

Aug 2021 - June 2023

- Organized 60 community (100 students) and 12 college-wide (1200+ students) events to advance personal, social, and professional development, managing a net annual budget of \$3400