Raghav Kaashyap

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EDUCATION

Iowa State University   Ames, IA
Bachelor of Science in Software Engineering   *Expected Graduation: May 2027*
- **GPA: 3.92**
- **Relevant Coursework**: Object Oriented Programming, Data Structures, Algorithms (Summer 2025), User Interfaces, Software Development, Software Architecture, Embedded Systems, Software Testing, Operating Systems (Fall 2025), Database Management Systems (Fall 2025)
- **Honors**: College of Engineering Dean's List (All semesters), Top 2% Engineering (Sophomore)

EXPERIENCE

Software Engineer Intern (Full-Stack)   May 2025 – Present
Principal Financial Group   *Des Moines, IA*
- Automated a **Guest Net Request application** using **JavaScript**, streamlining **access provisioning** and enabling an estimated **80+ hours/year** in time savings
- **Collaborating in an Agile** environment to streamline administrative workflows and **automate business processes**, reducing manual effort and technical debt
- Learning enterprise **backend automation** and **platform integration** within a **cloud-centric** infrastructure

Student Software Engineer (upcoming)   Starting August 2025
John Deere   *Ames, IA*
- Will work part-time during the academic year as a software engineer at John Deere

Undergraduate Research Assistant - AI & Data Science (upcoming)   Starting August 2025
D4 NRT, Iowa State University   *Ames, IA*
- Accepted into the NSF-funded Dependable Data-Driven Discovery (D4) research program focused on **machine learning fairness, interpretability, and deployment**
- Expected to contribute to Python-based research tools for **model bias detection and performance analysis**

PROJECTS

Utilities Spend Tracker | *React, Java, Spring Boot, MySQL*
- Built a full-stack utility tracking platform to automate expense analysis by integrating **Apache Tika** with a **Java Spring Boot** backend for **PDF parsing**, achieving **90% accuracy** in extracting structured billing data
- Designed and implemented **RESTful APIs** and dynamic, **real-time visualizations** (bar and line charts) to present trends across 4 utility categories and enhance user insight

NutriNavigator | *Android Studio, Java, Spring Boot, MySQL*
- Built a crowd-sourced mobile app for meal planning and calorie tracking; developed **10+ backend features** including calorie computation, meal logic, and **JWT-based authentication** for secure, role-based access
- Implemented a **CI/CD pipeline** using GitLab Runner and authored **25+ unit tests** with Rest Assured, achieving **95% backend test coverage**
- Built scalable APIs powering user features such as **real-time messaging**, dietary filtering, and personalized recipe bookmarks using WebSockets

Bomb Detection Robot | *C*
- **Collaborated in a team** of 4 to program an autonomous robot in **C** to detect hazardous objects using sensors, simulate response, and navigate a physical test field
- Implemented **sensor polling**, motor control logic, and decision-making algorithms for dynamic obstacle avoidance and threat localization

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS
Developer Tools: Git/GitHub/Gitlab, Postman, VS Code, Maven, Figma, Jira, AWS, Docker
Libraries/Frameworks: Spring Boot, React, React Native (with Expo), Node.js, Express.js
Database Technologies: MySQL, SQLite, MongoDB