

# Pooja Huff

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## SUMMARY

Eager computer science master's student with hands-on expertise in machine learning and cloud technology. Contributed to developmental tools by enhancing engineering efficiency through collaboration. Solid knowledge of Golang, Python, and scalability in distributed systems positions for impactful contributions. Collaborative nature lends itself to problem-solving alongside engineering teams. Proven track record of building scalable architectures and significant model performance improvements through data-driven approaches. Thrives on challenging environments, eager to apply peers' knowledge and academic experience as an integral part of a leading AI/ML engineering team.

## EDUCATION

### Master's Degree in Computer Science

Stanford University GPA: 3.8

2027

Palo Alto, CA

*Coursework: Algorithms, Cloud Computing, Machine Learning, Scalable Systems*

## TECHNICAL SKILLS

- **Programming Languages:** Golang, Python
- **Cloud Platforms:** Google Cloud Platform
- **Containerization Tools:** Docker, Kubernetes
- **Communication Protocols:** gRPC
- **Operating Systems:** Linux
- **Machine Learning Frameworks:** TensorFlow
- **Distributed Systems Concepts:** Scalable Architectures
- **Version Control:** Git
- **Testing Methodologies:** Unit Testing, System Testing
- **Development Methodologies:** Agile, Scrum

## SKILLS

- Golang
- Python
- Google Cloud Platform
- Docker
- Kubernetes
- gRPC
- Linux
- Machine Learning
- Scalable Systems

## EXPERIENCE

### Machine Learning Intern

University Project

January 2026 - Present

Remote

Focused on developing robust machine learning models utilizing Python and TensorFlow. Enhanced application deployment through experience with containerization technology like Docker on Google Cloud Platform. Designed scalable architecture suitable for diverse system applications, fostering teamwork and discussion around effective methodologies.

- Developed a machine learning model predicting system performance metrics, improving accuracy significantly.
- Collaborated with students designing scalable architecture on Google Cloud Platform for deploying ML applications.
- Implemented Docker for application containerization, facilitating smoother deployment processes.
- Tested algorithms extensively, ensuring reliability which enhanced overall system stability.
- Presented findings to faculty and peers, receiving positive feedback for clarity and analysis depth.
- Mentored junior students on best practices for executing machine learning projects.

### Research Assistant

University Research Lab

September 2025 - December 2025

Palo Alto, CA

Contributed impactful research toward scalable distributed systems, maximizing performance through optimizing microservices. Worked collaboratively with departmental researchers focusing on technical documentation and code quality.

- Supported research on distributed systems, optimized scalability and improved performance outcomes.
- Utilized Go and gRPC for developing efficient microservices that processed large datasets effectively.
- Participated in meetings discussing progress and findings, enhancing collaborative effort among team members.
- Documented methodologies for academic publication and ensured clarity in project outputs.
- Engaged in rigorous code review processes, maintaining high software quality standards.
- Organized a tech symposium showcasing research outcomes while improving communication skills.

## Software Development Team Member

March 2026

### Hackathon Project

*Remote*

Collaboratively developed a prototype for an innovative traffic optimization application using advanced AI technologies. Garnered recognition for outstanding design and effectiveness, demonstrating potential societal impact.

- Developed an AI-powered traffic optimization prototype using feedback from user-testing sessions.
- Leveraged Kubernetes for efficient orchestration of containerized application operations.
- Created engaging user interfaces using Python frameworks oriented around user experience.
- Conducted focused user tests collecting feedback to enhance functional aspects of the solution.
- Achieved 'Best Innovation' award at a competitive hackathon showcasing potential city intelligence applications.
- Documented development processes, presenting insights to industry professionals for constructive feedback.

## LEADERSHIP & AWARDS

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- Academic Dean's List at Stanford University, 2025
- Best Innovation Award, Tech for Good Hackathon, 2026

## CERTIFICATIONS

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- Google Cloud Fundamentals: Core Infrastructure 📅 2026
- Docker Essentials 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, Computer Science Club, Stanford University
- Volunteer Tutor for Local High School Coding Program

## LANGUAGES

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- English (Native) • Hindi (Proficient)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST