

Sharwan Ram

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EDUCATION

Iowa State University

Master's in Computer Engineering; GPA: 3.76

Ames, IA

Expected Graduation: Dec. 2022

Malaviya National Institute of Technology

Master of Technology in Computer Engineering; GPA: 3.78

Rajasthan, India

Aug. 2016 – July 2018

Rajasthan Technical University

Bachelor of Technology in Computer Science; GPA: 3.6

Rajasthan, India

Aug. 2011 – June 2015

EXPERIENCE

EnSoft Corp.

Software Engineer

Ames, IA

Jan 2019 - Dec 2020

- Customized APIs for optimization and improved versatility.
- Modified the legacy code of the existing large software and implemented a memory-mapped file system, resulting in an 82% improvement in performance.
- Developed Eclipse plug-ins (more than 5) in Java within the Eclipse IDE to analyze software and major software complexity. It helped customers to reduce software maintenance cost by 10%.
- Implemented customer centric solutions.

Software Engineer (Intern)

May 2021 - Aug 2021

- Refactored legacy code to add new features.
- Reported and fixed 9 critical bugs in the core component of the software.
- Performed peer code review and unit testing.

Software Engineer (Intern)

May 2022 - Aug 2022

- Developed a thread-safe software graph translation feature using copy-on-write.
- Involved in team meetings and provided status updates.
- Added APIs to the legacy software.

Iowa State University

Software Developer and Security Analyst

Ames, IA

May 2018 - Jan 2019

- Participated in DARPA's Space/Time Analysis for Cybersecurity (STAC) project, a highly sophisticated program.
- Served as a software developer and security analyst on the Iowa State University team.
- Collaboratively, designed and developed two program analyzers that detected novel and sophisticated vulnerabilities in software.
- Developed automated documentation generation software and published an award-winning paper in collaboration.

Research and Teaching Assistant

Spring 2021, Fall 2021, Spring 2022

- Developed a tool for analyzing Linux code, specifically to classify loops from a security perspective in Linux. It reduces human efforts by 60%
- Actively participated in the creation of programming assignments, exams, and recitation sessions.
- Assisted more than 350 senior students.

TECHNICAL SKILLS

- **Programming Languages:** Java and C (Proficient), Python and C++ (Intermediate), JavaScript, SQL, HTML, CSS, Scala (Beginner)
- **Frameworks:** ReactJs, NodeJs (Beginner)

LEADERSHIP SKILLS & AWARD

Malaviya National Institute of Technology

Graduate Placement Coordinator

Rajasthan, India

Jul 2017 - May 2018

Institute of Electrical and Electronics Engineers (IEEE)

Best Challenge Entry Award in DySDoc3

Madrid, Spain

Sep. 2018

Iowa State University

Top Performing Team Member in DARPA's STAC Program

Ames, IA

Oct. 2018