

Rohan Purandare

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Education

Purdue University

West Lafayette, Indiana

Master of Science in Computer Science, GPA: 3.93/4.00

Aug 2023 – May 2025 (Expected)

- Focuses: Machine Learning and Security
- Coursework: Artificial Intelligence, Data Mining, Natural Language Processing, Information Security, Data Security and Privacy, Algorithmic Economics, Algorithm Design, Analysis, and Implementation, Security Analytics, Data Communication and Computer Networks, Compilers

Bachelor of Science in Computer Science, GPA: 3.86/4.00

Aug 2020 – May 2024

- Concentrations: Machine Intelligence, Software Engineering, Security, Algorithms, and Databases & Information Systems
- Coursework: Operating Systems, Algorithm Analysis, Databases, Cryptography, Systems Programming, Software Testing

Technical Skills

Languages: JavaScript, Java, Python, C, C++, HTML/CSS, Golang, SQL, Bash, PromQL

Tools and Technologies: React, Angular, Spring, Node.js, MongoDB, Prometheus, Kubernetes, Grafana

Certificates & Awards

Certificates: Applications of Data Science, Entrepreneurship and Innovation

Dean's List: 8/8 semesters

Semester Honors: 8/8 semesters

Experience

Trumid | Golang, Bash, Jenkins, PromQL, Kubernetes, Grafana

Remote

Observability Technology Intern

Jun 2024 – Aug 2024

Trumid is a FinTech company focused on optimizing the trading experience for fixed-income securities.

- Led the design and development of an application to automate the synchronization of member lists across Slack and OpsGenie, collaborating with engineers to define requirements and test cases, reducing manual updates by 90%, and ensuring reliable communication workflows and platform stability.
- Developed a static analysis tool to detect commits affecting metrics or dashboards, streamlined ownership information across the repository with CI/CD tests to ensure uniformity across the repository, and built a CLI tool to provide engineers with team and group details.
- Enhanced observability for the Prometheus Operator by adding dashboards and alerts, and developed an alerting tool to notify engineers of Kafka consumption lags, eliminating any instances of lag that exceeded 5 minutes.
- Created comprehensive test cases for all applications developed, achieving 87% coverage, proactively addressing potential edge cases, and minimizing post-release issues.

Amazon Web Services | Spring, Angular, Java, JavaScript, HTML

Seattle, Washington

AppStream Software Development Engineer Intern

May 2023 – July 2023

Amazon Web Services (AWS) provides a robust suite of cloud computing services to support various business needs.

- Collaborated with cross-functional engineering teams to define and design a dashboard for visualizing AppStream streaming events, significantly accelerating problem diagnosis and reducing mean time to detect (MTTD) from several hours to just 8 minutes.
- Enhanced log retrieval capabilities by implementing robust secure authentication and improving user interface usability.

Amazon Web Services | Spring, Angular, Java, JavaScript, HTML

Seattle, Washington

AppStream Software Development Engineer Intern

May 2022 – Aug 2022

- Developed a high-efficiency data pipeline to extract insights directly from the database, significantly reducing Photon Ops Console costs associated with log and streaming instance data by 30%.

PTC | *Golang*

Boston, Massachusetts

Creo Product Software Engineer Intern

June 2021 – Aug 2021

PTC provides a wide range of digital solutions to transform how companies design and manufacture products.

- Streamlined API specification automation for Creo product's collaboration services by leveraging go-swagger to parse complex files and generate OpenAPI 3.0.0 compliant specification.

Purdue Department of Computer Science

West Lafayette, Indiana

CS 381: Analysis of Algorithms Graduate and Undergraduate Teaching Assistant

Jan 2023 – Present

- Conduct study sessions to reinforce lecture material, address student questions during office hours, provide support for assignment completion, and assist in content creation for over 1000 students.

Computer Science Student Ambassador

Aug 2023 – May 2024

- Served as a student ambassador, presenting the student perspective on the Purdue Computer Science department to over 1,100 prospective students.

CS193: Tools Course Lead/Instructor

Dec 2021 – Dec 2022

- Instructed over 900 students on the fundamentals of software development including version control with git, terminal navigation and commands, and effective debugging techniques.

Personal Projects

Indoor Scene Classification | *Python* |  rohanpurandare.com/scenes.html


Feb 2024 - Apr 2024

- Conducted a comparative analysis to investigate the effectiveness of ResNet and Inception CNNs (Convolutional Neural Networks) relative to traditional CNNs for indoor scene identification, evaluating their performance together to understand the benefits of deep learning in computer vision.
- Determined the effectiveness of object detection techniques in improving scene identification accuracy by comparing its performance with other visual and spatial cues.

Codenames AI | *Python* |  rohanpurandare.com/codenames.html

Oct 2023 - Dec 2023

- Developed a sophisticated AI for the popular board game Codenames, leveraging the power of minimax and randomized search algorithms to generate clever and tactical clues.
- Leveraged TF-IDF (Term Frequency-Inverse Document Frequency) vectorization to measure word similarity and improve the contextual relevance of AI-generated clues.

Mood Palette | *MongoDB, Express, React, Node* |  rohanpurandare.com/moodpalette.html

Jan 2023 - May 2023

- Collaborated with a team of 6 to design and build a web application that enables users to track and manage emotions, receive tailored music suggestions to enhance their mood, and monitor personal habits.
- Managed the development and implementation of daily input, daily data display, and the site shop.

Shell Interpreter | *C, C++, Lex, Yacc*

Jan 2022 - May 2022

- Constructed a shell interpreter by integrating functionalities and features from widely used shells such as bash and csh.

Organizations and Hobbies

Purdue Chaiyya (Dance Team) | Team Manager

May 2024 - Present

- Oversaw team logistics by coordinating dance practices, tracking attendance, booking practice spaces, and maintaining open communication.

BoilerMake XI (Hackathon) | Director

Jan 2023 - Feb 2024

- Led and orchestrated a 36-hour hackathon, overseeing 500 students and coordinating with 10 sponsors, university representatives, and Major League Hacking (MLH) to ensure successful event execution.

LaunchPad (Mentorship Organization) | Communications Lead, Web Dev Lead

Jan 2021 - Jan 2023

- Managed social media, email campaigns, and sponsor relations. Led a team of 5 to develop a website to increase organizational visibility.

Computer Science Undergraduate Student Board | Vice President

Apr 2022 - Apr 2023

- Facilitated effective communication and collaboration among board members, assigned responsibilities, and monitored progress to achieve timely outcomes.