Rohan Purandare

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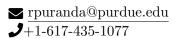
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Education

Purdue University   **West Lafayette, Indiana**

Master of Science in Computer Science, GPA: 3.93/4.00   *Aug 2023 – May 2025 (Expected)*
- Coursework: Artificial Intelligence, Data Mining, Information Security, Algorithmic Economics, Algorithm Design, Analysis, and Implementation, Security Analytics, Data Communication and Computer Networks

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

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

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*   **Remote**
Observability Technology Intern   *Jun 2024 – Aug 2024*
Trumid is a FinTech company focused on optimizing the trading experience for fixed-income securities.
- Developed an application to automate the synchronization of member lists across various groups and channels in Trumid's Slack workspace with OpsGenie, ensuring seamless and consistent communication workflows at all times.
- Built a static analysis system to detect code changes that impact dashboards and metrics, enabling early identification of potentially expensive modifications to the codebase.
- Designed and implemented an alerting tool to monitor Kafka record consumption, notifying engineers of significant lags and effectively eliminating any instances of lag lasting over 5 minutes.

Purdue Department of Computer Science   **West Lafayette, Indiana**
CS 381: Analysis of Algorithms Undergraduate and Graduate 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 Tour Guide   *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.

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.
- Created a comprehensive dashboard to visualize key events throughout an AppStream streaming instance's life cycle, 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.

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.