Contact

2486007255 (Mobile)
premshen@umich.edu

www.linkedin.com/in/
premnathshenoy (LinkedIn)

Top Skills

C++
Java
Python

Languages

English (Native or Bilingual)
Konkani (Native or Bilingual)
Hindi (Limited Working)
Kannada (Limited Working)

Honors-Awards

William J. Branstrom Freshman Prize
University Honors
Bronze Presidential Service Award
University Honors
University Honors

Premnath Shenoy

Contract Software Engineer II at Meta Reality Labs and Graduate
Student in Applied and Computational Mathematics at University of
Washington
Seattle, Washington, United States

Summary

Contract Software Engineer II at Meta Reality Labs.
Graduate Student in Applied and Computational Mathematics at
University of Washington.

Passionate about applying interdisciplinary mathematics-computer
science techniques to real-world data sets.

Bachelor of Science in Computer Science, Data Science,
Mathematics, and Statistics.
Master of Science in Applied and Computational Mathematics (June
2023).

Experience

Meta
Contract Software Engineer II
March 2022 - Present (7 months)
Redmond, Washington, United States

- Developing infrastructure and tools for the Machine Perception Services team
in the Reality Labs Research Surreal organization.
- Adding incremental features for Augmented Reality glasses to enhance
processing of motion sensor data using C++ and Python.
- Collaborating with researchers on engineering tasks in preparation for CVPR
2022.
- Configuration of various AWS resources as part of third-party vendor and
academic partner workflows.
- Creating a web application for a three-dimensional bounding box annotation
tool using Python, Flask, SQLite3, ReactJS, and Material UI.

Zulily
Software Engineer II
January 2022 - June 2022 (6 months)

- Developing and maintaining back-end infrastructure in Java for micro-services to curate and analyze various merchandise under the Merch and Vendor Experiences organization's Events team.
- Improving application performance monitoring techniques (telemetry) for Event Analyzer service.
- Services: BigQuery, OpenSearch, Logstash, Kibana, Grafana, CloudWatch, SNS, SQS, Kinesis, API Gateway, Lambda, EventBridge, MongoDB, ElastiCache, S3, Datadog, Splunk, Elastic Kubernetes Service, Terraform, DynamoDB, RabbitMQ, Route53, Docker, GitLab, Maven, Jumpbox, MariaDB, and Codahale.

Amazon Web Services (AWS)
Software Development Engineer I
July 2020 - January 2022 (1 year 7 months)
Seattle, Washington, United States

- Developing and maintaining Amazon's serverless query engine, Athena.
- Mentored a group of Solutions Architect, Software Development Engineer, Product Design, User Experience, Business Intelligence Engineer, and Hardware Engineer interns as part of the Intern Circles program.
- Automating database management tasks to handle support tickets using Python, SQL, Lambda, Redshift, and Identity & Access Management (IAM).
- Created CloudWatch dashboards to analyze important statistics such as query runtime and concurrency using Java.
- Launching infrastructure in air-gapped data centers.
- Mentored and helped onboard newly hired software engineers.

University of Michigan
Reinforcement Learning Research Intern
January 2020 - April 2020 (4 months)
Ann Arbor, Michigan, United States

- Reinforcement Learning reading group: Introduction to Reinforcement Learning by Barto and Sutton.
- Implementation of Q-learning, SARSA, and Prioritized Sweeping algorithms in Python.
- Final presentation on summarizing a research paper connecting information theory with reinforcement learning.

Amazon Web Services (AWS)
Solutions Architect Intern

June 2019 - August 2019 (3 months)
Manhattan, New York, United States

- Created a serverless conversational chatbot using AWS cloud services such as Lex, Lambda, Polly, DynamoDB, Simple Storage Service (S3), CloudWatch, and Simple Email Service (SES).
- Lambda functions written in Python and user interface using JavaScript and HTML.

University of Michigan
Machine Learning Research Intern
June 2018 - September 2018 (4 months)
Ann Arbor, Michigan, United States

- Literary analysis of papers on prediction markets and information theory and the applications of machine learning and probabilistic modeling in economics.
- Implementation of logarithmic market scoring rule (LMSR)-based prediction markets in Python.

University of California, Los Angeles
Applied and Computational Mathematics Research Intern
June 2017 - August 2017 (3 months)
Los Angeles, California, United States

- Conducted computational mathematical research which involved image analysis using MATLAB and FIJI and wrote a paper on the morphological measures of hyphal network in Neurospora crassa in UCLA's myco-fluidics laboratory.
- Inference: Hyphal networks of fungi are sensitive to environmental stimulus and there was a significant change in the geometry of the network when the media was treated with the antibiotic, Cycloheximide.

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Education

University of Washington
Master of Science - MS, Applied and Computational Mathematics · (September 2022 - June 2023)

University of Michigan
Bachelor of Science (BS), Computer Science, Data Science, Mathematics, and Statistics · (September 2016 - May 2020)