

Ananth Shreekumar

Graduate Student, Department of Computer Science
Purdue University, West Lafayette, IN, USA

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Education

Master of Science in Computer Science

Purdue University

- GPA : 4.0 / 4.0

Expected Dec 2023
West Lafayette, IN, USA

Integrated Master of Technology in Computer Science and Engineering

International Institute of Information Technology Bangalore

- 5 year Bachelor's + Master's program, GPA : 3.92 / 4.0

Jul 2021
Bangalore, India

Experience

American Express

Software Engineer, Enterprise Architecture Team

- Integrated machine learning capabilities to logging and monitoring framework to detect anomalies from logs.
- Implemented a pipeline to perform automated log analysis on real-time log data.
- Utilized: Python · Anomaly Detection Toolkit · Logstash · Elastic Search · Kibana

Aug 2021 - Dec 2021
Bangalore, India

Siemens Healthineers

Technical Intern, Center for Innovation in Diagnostics Team

- Designed a pipeline to predict Sepsis onset in ICU patients from bedside measurements using deep learning.
- Model performance exceeded 87% on accuracy, F1-score, specificity, and sensitivity metrics.
- Utilized: Python · Tensorflow · Numpy · Pandas · Matplotlib

Jan 2021 - Jul 2021
Bangalore, India

Purdue University

Graduate Teaching Assistant

- Dev GTA. Fall 2023. Creating assignments and projects for courses.
- CS 352 Compilers: Principles and Practice. Spring 2023. Held weekly lab sessions, graded exams.
- MA 165 Calculus I. Fall 2022. Held weekly recitation classes for over 100 students, office hours.

Aug 2022 - Present
West Lafayette, IN, USA

Technical Skills

Programming Languages : Python · C++ · C · Java · SQL

Tools : Git · GitHub · Linux · Shell scripting · Docker · Jenkins · Conda · Make · LaTeX

Data Science and ML : Pytorch · Tensorflow · Scikit-Learn · Pandas · Numpy · Jupyter Notebook

Frameworks : MongoDB · MySQL · Flask

Selected Academic Projects

Compiler for a variant of C

- 6 projects culminating in a fully functional compiler for a variant of the C language.
- Included syntax and semantic analysis, intermediate code generation, and register allocation.
- Utilized: C++ · LLVM · GDB · Git

Jan 2022 - May 2022

Column Store Database

- Developed a column store database from scratch with a focus on data definition and schema parsing.
- Implemented a schema in XMLSchema and a parser in C++ for validating relational schemas.
- Query processor supported select queries with filtering, projection, joins, and aggregations.
- Utilized: C++ · XML · Git · GitHub

Jan 2020 - May 2020

Bargaining Agent for E-Commerce

- Designed an E-Commerce Agent that has the ability to bargain with a user by offering discounts, recommending product bundles, and evaluating counter-offers made by the user.
- Featured in a [technology.org](https://www.technology.org) article.
- Work published at the Intelligent Virtual Agents conference IVA'20. doi: [10.1145/3383652.3423865](https://doi.org/10.1145/3383652.3423865)

Aug 2019 - Dec 2019

Relevant Coursework

Core CS : Algorithms · Compilers · Databases · Software Engineering · Networks · Cloud Computing · Security

AI & ML : Machine Learning · Deep Learning · Reinforcement Learning · Computer Vision

Math : Probability Theory · Discrete Mathematics · Calculus · Linear Algebra · Convex Optimization