

Pranav Kannan Hariharane

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EDUCATION

Purdue University, West Lafayette, IN – B.S. in Computer Science and Data Science

Grad: December 2022; GPA: 3.86/4.0

Dean's List & Semester Honors: 7/7 Semesters

EXPERIENCE

Backend Developer at Barclays

02/13/2023 – Current

Developed and enhanced the backend of the Customer Website

- Primarily contributed code that efficiently routes user requests to the correct backend services and displays the data returned by these services in the best manner
- Employed the **Maven**, **Stripes**, and **Spring Boot** frameworks in **Java** for these efforts

Software Developer Engineering Intern at Amazon

05/23/2022 – 08/12/2022

Implemented idempotency for the CRUD operations in the AWS AppFlow service

- The idempotency property allows multiple requests with the same intent to result in the same outcome as a single request with that intent
- Utilized the Amazon **S3**, Amazon **DynamoDB**, Amazon **CloudWatch**, and **AWS Lambda** services along with **Java** to carry out the functionality of the project

Data Science Capstone Project with Helmer Scientific

01/10/2022 – 05/06/2022

Analyzed various Machine Learning and Data Science models to improve the accuracy at which Helmer Scientific is able to forecast the future sales for all their products

- Focused on exploring **Time Series Analysis** models with an emphasis on the **SARIMA** model
- Explored, tested, and evaluated the accuracy of these models primarily using the **NumPy**, **CSV**, **Matplotlib**, and **Scikit-learn** libraries in **Python**

Software Engineering Intern at Automation Anywhere

06/14/2021 – 12/31/2021

Automated tests for the frontend and backend frameworks. These tests were integrated into Jenkins pipelines for the regular builds of the application

- Applied the **Selenium**, **TestNG**, and **Maven** frameworks in **Java** for the frontend tests
- Applied the **RestAssured**, **TestNG**, and **Maven** frameworks in **Java** for the backend tests
- Modified Jenkinsfiles to run the tests using **Groovy**

SKILLS

Languages: Java, C/C++, Python, JavaScript, SQL, R, SAS, HTML, CSS

Database Management Systems: MySQL, PostgreSQL, Neo4j, MongoDB

Amazon Web Services: S3, DynamoDB, CloudWatch, CloudFormation, Lambda

Other Tools: Maven, Spring Boot, Git, Node.js, x86-64 Assembly

Certifications: HarvardX Data Science: R Basics, Oracle Java SE 8 Programmer I

Relevant CS Coursework: Analysis of Algorithms | Systems Programming (C) | Data Structures and Algorithms (Java) | Computer Security (C, x86-64 Assembly) | Operating Systems (C, x86-64 Assembly) | Computer Architecture (C, x86-64 Assembly) | Web Information Search and Management (Python) | Information Systems (SQL, MongoDB, Neo4j) | Computer Networks (Python, P4) | Programming in C | Python Programming | Problem Solving and Object-Oriented Programming (Java)

Relevant DS Coursework: Data Mining and Machine Learning (Python) | Large Scale Data Analytics (Python) | Introduction to Artificial Intelligence (Python) | Statistical Programming and Data Management (SAS) | Statistics for Data Science (R) | Probability | Statistical Theory | Introduction to Relational Database Systems (SQL, Java) | Data Science Capstone (Python)

Personal Portfolio: <https://pranavhariharane.com>