

# 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

### **Software Developer Engineering Intern at Amazon.**

**05/23/2022 – 08/12/2022**

Implemented idempotency for the CRUD operations in the AWS AppFlow service

- 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

### **Undergraduate Regex Researcher**

**01/11/2021 – 05/07/2021**

Contributed to the backend for a web application that helps programmers detect and fix vulnerable regular expressions within their code

- Employed MongoDB, AWS Lightsail, Worker Loops, and Logging Libraries in Node.js
- The backend used a MongoDB database setup in an AWS Lightsail instance to store the history of regular expressions

## SKILLS

**Programming Languages:** Java, C/C++, Python, R, Node.js, x86-64 Assembly, P4

**Web Frameworks:** HTML, CSS, JavaScript

**Database Frameworks:** SQL, MySQL, PostgreSQL, Neo4j, MongoDB

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

**Relevant CS Coursework:** Analysis of Algorithms | Systems Programming (C) | Data Structures and Algorithms (Java) | Computer Security (C, In Progress) | 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, In Progress) | Statistical Programming and Data Management (SAS) | Statistics for Data Science (R) | Probability | Statistical Theory | Introduction to Relational Database Systems (Java) | Data Science Capstone (Python)