Pranav Kannan Hariharane

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EDUCATION

Columbia University, New York, NY – M.S. in Computer Science
Grad: December 2025; GPA: 3.72/4.0

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

Full-Stack Engineer at Barclays   **02/13/2023 - Current**
Support in developing and enhancing the backend of the consumer banking system
- Develop **REST APIs** that direct user requests to the correct backend services
- Collaborate with teams for specification on the consumption of these **APIs**
- Handle seamless integration of these REST APIs in the customer website
- Coordinate with team members to resolve any issues with the login and registration experience
- Employ the **Spring**, **Stripes**, and **Maven** frameworks with **Java** for these efforts

Software Developer Engineering Intern at Amazon   **05/23/2022 - 08/12/2022**
Implemented idempotency for the CRUD APIs in the **AWS AppFlow** service
- Used the **AWS SDK** framework in **Java** to interact with the **AWS DynamoDB** and **S3** services
- Applied the **Maven** and **Google Guice** frameworks for dependency injection and management
- Deployed changes onto **AWS Lambda** instances in lower environments
- Monitored project logs and execution with **Amazon CloudWatch** and **CloudFormation**

Data Science Capstone Project with Helmer Scientific   **01/10/2022 - 05/06/2022**
Exercised **Machine Learning** to improve sales forecasting accuracy to a 15% margin for error
- Analyzed **Time Series** data for 20+ products to find trends to leverage in **SARIMA** models
- Trained, evaluated, and interpreted the accuracy of these models using the **Pandas**, **NumPy**, **CSV**, **Matplotlib**, and **Scikit-learn** libraries in **Python**

Software Engineering Intern at Automation Anywhere   **06/14/2021 - 12/31/2021**
Created automated tests for the frontend and backend frameworks of the enterprise process automation software service
- Applied the **Selenium** and **TestNG** frameworks in **Java** for the frontend tests
- Applied the **REST Assured** and **TestNG** frameworks in **Java** for the backend tests
- Used **Maven** for dependency injection and management

SKILLS

Languages: Java, Python, C/C++, HTML, CSS, JavaScript, SQL, R, x86-64 Assembly
Frameworks/Libraries: Spring, Maven, OpenAPI, React.js, Node.js, PyTorch, TensorFlow, NumPy, Pandas, Selenium, REST Assured, TestNG
Database Management Systems: MySQL, PostgreSQL, Neo4j, MongoDB
Amazon Web Services: S3, DynamoDB, Lambda, CloudWatch, CloudFormation
Other Tools: Bash, Git, GitHub, Postman, Chrome DevTools, RESTful WebServices
Personal Portfolio: https://pranavhariharane.com
Certifications: Stanford NLP with Deep Learning, Oracle Java SE 8 Programmer
Relevant CS Coursework: Data Structures and Algorithms (Java) | Analysis of Algorithms | Information Systems (SQL, MongoDB, Neo4j) | Systems Programming (C) | Computer Networks (Python) | Computer Security (C, x86-64 Assembly) | Operating Systems (C, x86-64 Assembly)
Relevant DS Coursework: Neural Networks and Deep Learning (Python) | Natural Language Processing (Python) | Large Scale Data Analytics (Python, SQL) | Data Mining and Machine Learning (Python) | Introduction to Relational Database Systems (SQL, Java) | Statistical Theory