

Rishabh Pandey

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EDUCATION

Purdue University

B.S. in Computer Science (GPA: 3.47/4.00)

Aug 2021 – Dec 2024

West Lafayette, IN

Relevant Coursework: Software Engineering, Systems Programming, Operating Systems, Computer Networks

Database Systems, Intro to RDBMS, Cloud Computing, Data Mining & ML, Intro to Artificial Intelligence

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, Java, Swift, Golang

Developer Tools: Git, Unix/Linux, AWS, Azure, GCP, Docker, Kubernetes, Postman, Spark, Flink

Databases & Data Storage: MySQL, PostgreSQL, SQLite, MongoDB, Neo4J, Oracle

Libraries/Frameworks: NumPy, Pandas, Sklearn, Tensorflow, FastAPI

EXPERIENCE

Incoming Software Engineering Intern

NBCUniversal

Sept 2024

Remote

- Working on the Peacock Reliability & Engineering team! (Specifics TBD)

Software Development Intern | *Python, Docker, Kubernetes, Helm, Azure*

Geico

Jun 2024 – Aug 2024

Chevy Chase, MD

- Architected and deployed JupyterHub using Azure Kubernetes Service (AKS), supporting 100+ data scientists and analysts, enabling scalable environments for advanced analytics.
- Integrated JupyterHub with Spark and Azure Data Lake Storage (ADLS), enhancing data processing capabilities and optimizing data workflows to reduce Snowflake costs by 25%.
- Implemented security protocols by integrating Azure AD roles with JupyterHub for seamless authentication and authorization.

AI/Software Engineering Intern | *Python, OpenCV, Matplotlib*

Agrofocal Technologies

Aug 2023 – Dec 2023

Remote

- Conducted systematic error analysis while preparing 1000s of images for TensorRT models.
- Employed Numpy, Matplotlib, and Scikit-Learn for predictive analysis and forecasting of strawberry yields, utilizing polynomial regression and R-squared optimization to enhance accuracy.
- Created automation scripts using OpenCV and Tkinter for efficient manual annotation.

Software Engineering Intern | *PL/SQL, RestAPIs, Oracle*

Texas Instruments

May 2023 – Aug 2023

Dallas, TX

- Developed an cloud-native Oracle application that manages software licenses for 250+ products.
- Integrated 10Duke REST API to query customer details and improve real-time customer support.
- Enhanced customer support efficiency and satisfaction by reducing information retrieval workflow from an average of 4-6 hours to roughly 3-5 seconds ($\approx 99\%$ decrease).

PROJECTS

Outfit of the Day (OOTD) | *Swift, SwiftUI, Firebase*

Feb 2024 – Apr 2024

- Engineered a SwiftUI-based mobile app that allows users to create a digital closet, sharing images, and plan outfits.

Daily News | *Python, NewsAPI, Twilio, AWS EC2*

July 2023 – Aug 2023

- Developed a Python script and automated AWS EC2 cluster to send daily news headlines via text messages.

CAMPUS INVOLVEMENT

- Tech Committee Head + Member @ Alpha Kappa Psi
- Teaching Assistant @ CS 17600
- Member @ ML@Purdue
- Consultant @ PurdueTHINK