

Samarth Rai

Software Engineering | Data Science | Undergraduate Computer Engineering Student @ AUS

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Career Summary

I'm pursuing a Bachelors in Computer Engineering from the American University of Sharjah with a minor in Data Science. My experience ranges from personal and academic projects to professional freelance work. I am well versed in data analytics and am currently learning about deep learning and neural networks. I'm currently looking for a summer internship.

Education and Certifications

American University of Sharjah (AUS)

Bachelor of Science in Computer Engineering, Minor in Data Science

Sept 2019 - Dec 2023

GPA: 3.3/4.0

IBM Certified Data Scientist

Feb 2023

Online Certification in Machine Learning and Data Science

Professional Experience

Application Development Lead

Mar 2022 - Present

College of Engineering, AUS, Shj, UAE

- Developed and currently maintaining a cross-platform mobile application portal in Flutter.
- Handling over 2400 daily users using the application for coursework and attendance.
- Improved reach of college events by 54%.

Data Analyst & System Administrator

Nov 2021 - Jan 2023

Byte Innovators, Philadelphia, PA, USA (Remote)

- Created web scrapers using python libraries such as BeautifulSoup and Pandas.
- Used various classical machine learning models on stock market data for inference.
- Created dashboards to display data and useful insights.

Junior IT Specialist

Aug 2021 - Present

IT and Communication Security Department, AUS, Shj, UAE

- Managing customer service and ensuring satisfaction across services.
- Testing and deployment of new services and Troubleshooting of existing services.
- Responsible for conducting new employee training and onboarding.

Research Experience

Research Assistant - Solar, IOT and Machine Learning

Sept 2022 - Jan 2023

Research conducted under Dr. Rached Dhaouadi at the American University of Sharjah

- Research on solar efficiency and performance under various environmental conditions.

Research Assistant - Data Science

Feb 2022 - Sept 2022

Research conducted under Department of International Studies

- Research work included web scraping and sentiment analysis on data collected from user tweets.

Projects

- **BugTracker App:** Android mobile application using Java with Firebase Cloud Firestore and Firebase Authentication.
- **MLOps Pipeline:** An application implementing an MLOps pipeline with Deutsche Lufthansa AG.
- **Virtual Private Network (VPN):** VPN server based on the Wireguard protocol.
- **Linux Server:** Fedora-based Linux server for service deployment and testing.
- **Route Planning Application:** Built a route planning application using C++ and Dijkstra's algorithm.

Skills

Languages: Python, SQL, R, C++, Java, XML, HTML, Kotlin, Swift, Dart, JavaScript, TypeScript

Tools & Technologies: Git, Docker, Kubernetes, NodeJS, ReactJS, BeautifulSoup, Pandas, SKLearn, Keras, PyTorch, Flutter, AWS

Operating Systems: Linux, MacOS, Windows

Awards

- **CSE Leadership Excellence @AUS:** Given to 1/1855 students. Awarded for **outstanding leadership** skills and contributions to AUS.
- **Undergraduate Research Grant @ AUS:** Awarded a grant for conducting research in the **MLOps** domain.
- **Dean's List @ AUS:** Three-time recipient of the award given for **exemplary academic performance**.
- **Outstanding Student Scholarship (USD 100,000) @ AUS:** Awarded for consistently **outstanding academic performance**.
- **1st Place @ Ericsson Together Apart Hackathon:** Captained one of 6 winning teams that **developed an app** for **emergency response** by automatically detecting accidents using smartwatch sensors. Showcased at the Swedish Pavilion at the **Dubai Expo 2020**.