

Anurag Joshi

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EDUCATION

- **Clark University** Worcester, MA
Masters in Computer Science August 2023 -
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence in Large Language Models (LLM), Machine Learning, Networking, Databases

SKILLS SUMMARY

- **Languages:** Python, Perl, C/C++, Javascript, Shell, Oracle SQL, Java.
- **Frameworks:** Pyspark, Scikit, Spring Boot, React, Angular, TensorFlow, Keras, Django and NodeJS.
- **Tools:** GIT and Serena
- **Tools:** PostgreSQL, MySQL, Oracle and MongoDB.
- **Platforms:** Linux/Unix, Windows, Raspberry, AWS (Lambda, DynamoDB, Amplify, API Gateway, S3, Glue)
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Hexaware Technologies** United States - Remote
Cloud Engineer Intern (Full-time) June 2024 - July 2024
 - Assist in creating and maintaining ETL (Extract, Transform, Load) pipelines using AWS services such as AWS Glue, AWS Lambda, and Amazon S3.
 - Monitor and Optimize the performance of data pipelines and AWS resources to improve efficiency and reduce costs.
 - Develop automation scripts to streamline repetitive data engineering tasks and workflows using Python and AWS SDKs.
 - Work closely with data analysts and data scientists to understand their data requirements and provide them with clean, well-structured data sets.
- **Tata Consultancy Services (Client: State Bank Of India (SBI))** On-site (Mumbai)
Software Developer (Full-time) November 2020 - August 2023
 - 4+ years of software development experience in object-oriented programming, design and development of multi-Tier distributed, Enterprise applications using Java and J2EE technologies with software development cycle.
 - Working experience on Spring MVC presentation tier frameworks and ORM technology Hibernate 3.0.
 - Skilled in working with external APIs for data retrieval, processing, and integration into Python applications.
 - Designed and developed a Mark-to-Market application to mark the securities with market prices to evaluate the collateral margin exposure. Utilized C++ templates, OO Design Patterns. Implemented SFTP connection using curl using C++, from windows to Unix systems.
 - Involved in Software design, development and maintenance, Perform design and code reviews .
 - Expertise in designing, developing middleware components and Desktop/GUI applications for software in C/C++ using STL, multi threading, data structures. IPC (TCP/IP socket programming) and design patterns.
 - Implemented Encryption and Decryption using RSA (encryption algorithm) in C and Java language. Which is used for security reasons, so that intruder cannot get the original file/string to protect data confidentiality .
 - Developed, customized, and monitored various of ETL processes. Customer and application data were loaded into existing application data via Scheduled Jobs, SQL Loader.
 - Proficient in Perl programming language, with experience establishing SFTP connections with branches and transferring files through Perl scripts, as well as developing dynamic web pages using CGI and Perl for interactive user interfaces and backend functionality..
 - Used SSIS (SQL Server Integration Services) to import/export data from various sources.
- **Defence Research Development Organisation (DRDO)** On-site
Research Intern (Full time) May 2019 - June 2020
 - **Project Course :** Designed Antenna with help of High-Frequency Structure Stimulator (HFSS) and used python's Sci-py and Scikit-learn for analysis.
- **Institution Of Electronics and Telecommunication Engineers (IETE)** On-site
Intern (Full time) May 2018 - June 2019
 - **Project Course :** Developed embedded system which prevents road accidents at dangerous turning points, using IR sensors and Micro-controller.

PROJECTS

- **Drag-n-drop machine learning learning environment (Web Development, Machine Learning) | Python**
Scratch-like tool for implementing machine learning pipelines along with built-in tutorial for each concept.
- **Asynchronous Job Scheduler File System | C, Linux workqueues**
Designed and built a Stackable Linux File System as a Linux module to enable asynchronous bulk operations. Improved the bulk operation performance by 25% over synchronous operation execution.
- **Carpooling (Web Development) | Python(Django), SQLite3**
Implemented Clark Ride-Share app using Django framework (ORM) , enabling Clark Students to easily share rides with fellow mates, resulting in significant cost savings and enhanced transportation accessibility.
- **DNS Resolver using DNSSEC | Python**
Implemented a secure local DNS resolver which uses DNSSEC protocol rather than UDP based IP resolution .
- **Build Classification and Clustering Models with PySpark and MLlib | Python with AWS**
For small business owners, customer segmentation clustering models can group customers by their purchasing behavior, enabling targeted marketing and personalized recommendations. These models help tailor marketing efforts and improve customer engagement.

CERTIFICATIONS AND AWARDS

- NPTEL Accredited Certification in Artificial Intelligence and IoT (Internet of Things).
- Participated at TCS EngiNx Engineering Project Innovation Content.