Anshul Mallick

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EDUCATION

Arizona State University

Masters in Computer Science

Indian Institute Of Technology (IIT) Indian School of Mines

Bachelor of Technology in Electronics and Instrumentation Engineering

August 2023 - present Tempe, United States

July 2017 - May 2021 Dhanbad, India

TECHNICAL SKILLS

Management Tools: JIRA, Slack, Google Suite, Microsoft Excel, Microsoft Word, PowerPoint

Languages: Python, C++, ReactJS, HTML, CSS, JavaScript, SQL, GraphQL

Technologies: AWS (EC2, EKS, Lambda, S3), Snowflake, Airflow, Docker, Kubernetes, Bitbucket, Git, GitHub

Libraries/Frameworks: FastAPI, NumPy, Pandas, Boto3, Keras, Tensorflow, Sci-kit Learn

EXPERIENCE

Ira A. Fulton Schools of Engineering - Arizona State University

October 2023 - November 2023

Graduate Services Assistant

Tempe, Arizona

• Grader CSE 340: Served as a Grader for the course CSE 340 Principles of Programming Languages. Elevated class performance through tailored concept explanations, reviewing code and assisting 60+ students with diverse backgrounds in topics like Compiler Construction, Lexical analysis and Type Systems.

Invesco - AlphaNextGen (ANG) Team

November 2021 - August 2023

Software Engineer 1

Hyderabad, India

- o Data Portal APIs: Built multiple GraphQL APIs for portfolio and security level accounts in FastAPI framework with asynchronous functionality. Optimized for performance, reducing the overall server response time by 50%.
- AWS Lambda Data Extraction: Architected core functionality of Data-Extract-Lite a serverless Lambda-based data extraction tool that improved data extraction time by 43%, querying data from source domains and outputting to S3 and on-prem locations.
- Excel Power Query Generator: Engineered a ReactJS tool to transform GraphQL queries into MQuery for immediate use by Portfolio Managers, reducing trade placement time by 30%.

AI and Computing Lab, IIT Dhanbad

August 2020 - April 2021

Research Aide

Dhanbad, India

- o CKD Detection: Implemented advanced data mining under Dr. Nirupama Mandal to enhance Chronic Kidney Disease(CKD) detection using machine learning algorithms, improving screening accuracy and outcomes.
- Algorithm Analysis: Drove the comparative analysis of machine learning algorithms, successfully demonstrating that Probabilistic Neural Networks (PNN) outperformed others in accurately predicting CKD stages paving the way for innovative, cost-effective diagnostic solutions.

Defence Research and Development Laboratory (DRDL) - DRDO,

May 2019 - July 2019

Research Intern

Hyderabad, India

- o Algorithm Development: Spearheaded the development and implementation of an advanced Radome Error Compensation Technique for Phase-based Direction Finding (DF) systems under the supervision of Dr. Venkat Kanala, Grade E Scientist
- Visualization Enhancement: Leveraged Python for the creation of sophisticated data visualization tools, enhancing the analysis and interpretation of complex DF system behaviors under various environmental conditions.

LEADERSHIP EXPERIENCE

Tutor, Fast Forward India, IIT Dhanbad

September 2019 - April 2021

Facilitated transformative learning experiences for underprivileged students, enhancing their proficiency in both Mathematics, as a dedicated tutor for the NGO.

- Conducted one-on-one and group tutoring sessions for non-native English speakers visiting IIT Dhanbad on the foreign exchange program, focusing on language skills and academic writing.
- Joint Secretary, Society of Electronics Engineers, IIT Dhanbad September 2018 - May 2020 Led 10+ workshops/seminars, boosting engagement by 25%. Handled logistics, sponsorships, and marketing, enhancing technical skill sharing.
- Launched electronics design contest for 200+ participants, promoting innovation and problem-solving. Oversaw content, judging, and logistics, fostering technical excellence.