SRIKRUSHNA PINAKI BUDI
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Education

University of Massachusetts Amherst | Master of Science in Computer Science | CGPA: 3.95   **2023 - Present**
- **Courses:** Systems for Data Science, Comp & Network Security, Machine Learning, Neural Networks: Modern Intro, Database Design and Architecture, Advanced Algorithms, System Defense and Test

Great Lakes Executive Learning | Post Graduate Diploma in Artificial Intelligence and Machine Learning   **2020 - 2021**
- Machine Learning Projects: https://eportfolio.mygreatlearning.com/srikrushna-pinaki-budi

Osmania University, Hyderabad, India | Bachelor's in Electronics and Communication Engineering | CGPA: 7.97 / 10   **2017 - 2021**
- **Courses:** Computer Prog.& Prob. Solving, Com.Org. & Architecture, Data Comm.& Com. Networking, OOP using Java, Data Structures and Algorithms, Python Specialization, Applied Data Science Specialization

Skills

- **Programming languages:** Java, Python, JavaScript, Bash Scripting, Ruby
- **Libraries and frameworks:** JQuery, Angular, Spring Boot, Node.js, REST APIs, JSON-RPC, Git; Apache Flink, PySpark, Spark, Airflow, Kafka, Ruby on Rails
- **Databases:** PostgreSQL, MySQL, Snowflake, Apache Pinot, DynamoDB, MongoDB, Oracle database
- **Cloud:** AWS Lambda, EMR, EC2, S3, SNS, SQS, CloudWatch, KMS, API Gateway, CDK, CodePipeline; Jenkins
- **Cybersecurity (Penetration Testing):** Kali, Netcat, Nmap, Metasploit, Nessus, ARP poisoning, DNS spoofing, Ettercap

Work Experience

Staples US Retail, Framingham, Massachusetts | Software Engineer Intern   **May'24 - Aug'24**
- Created a Snowflake and Streamlit-based framework for anomaly detection using Snowpark Python, automating data validation and quality checks across multiple tables.
- Developed a customer sentiment analysis framework using Snowflake and Snowpark Python, enabling automated extraction of sentiment scores and keyword analysis from survey responses, and created data visualizations to present insights effectively.

Phenom People Pvt. Ltd. | Product Development Engineer   **May'23 - Oct'23**
- In the Data Analytics Team, for the Career Site Data migrated the Batch Processing Pipeline using Spark Streaming, Apache Airflow DAGs and Snowflake to the Near Real-time Processing system. Utilized Apache Flink for Real-time stream preprocessing and Apache Pinot as data warehouse. Achieved a 70% cost reduction and significantly enhanced query performance and dashboard latency by implementing segmentation and partitioning optimizations in Pinot.
- Led a data migration project for a US client to Canada in Snowflake with 150M records across multiple fact and dimensional tables with relational structure, while maintaining prod analytics dashboards integrity in a sprint.
- Redesigned the DBMS Design and AWS Data Pipeline for Jobs Data preprocessing to mitigate erroneous records.

Amazon Development Centre | Software Development Engineer   **Oct'21 - Apr'23**
- In Finance Automation Org, developed an Expense Reimbursement Application on Native AWS, which dealt with processing and secure storage of highly confidential banking data. Utilized microservices with Java Spring for backend and Amazon UI framework for frontend. Leveraged DynamoDB for secure storage of the user information and PostgreSQL for the payment combinations. Automated country onboardings for various process types, reducing manual effort by 80%.
- Detection of Fraudulent Vendor Banking Updates on the Banking Data by integrating with Advanced Machine Learning APIs and making this data available to Operations through Vendor Account Management Dashboard.
- Mitigated vulnerabilities such as cross-site scripting (XSS) and enforced Content Security Policy (CSP) for our web applications, ensuring robust protection against potential threats. Worked on Automation of GDPR Compliance for our applications (which stores and processes PII Data), using REST APIs and Native AWS Components.
- Maintained operational excellence as On-Call by reducing high-severity ticket resolution time, resulting in a 30% decrease in opex costs.

Projects

Adaptive Portfolio Management and Stock Price Forecasting Using LSTM Neural Networks   **Dec'23**
- Developed LSTM model for stock price prediction, optimizing architecture through hyper-parameter tuning.
- Designed and implemented a good trading algorithm, achieving high returns and a favorable Sharpe ratio during simulation.

Live Code Share Application | Link   **Dec'22**
- Live Code Sharing and Chatting Application which is a NodeJS based Web Application used for Coding Interviews
- **Tech Stack** - HTML, CSS, Javascript, Node.js, Express.js, MongoDB

URL Parser | Link   **Jun'22**
- Designed and Developed a Service which Parses URLs and stores them and based on the Content Type of the URL.
- **Tech Stack** - Spring Boot, MySQL, MongoDB, Apache Kafka ,Docker, Git

Achievements and Certifications

- IEEE Xtreme 14.0 - Global Rank 800 - Link
- Microsoft Azure Fundamentals, Introduction to Programming using Python - Microsoft Certified
- CodeChef Certificate in Data Structures and Algorithms - Link , Credly Badges - Link

Positions of Responsibility

IEEE MVSR Student Branch Program | Committee Head   **Jun'18 - Jul'21**
- Organized and was part of various Technical Events, Workshops and Seminars. Coordinated TechnoVanza Annual Event.