University at Buffalo

The State University of New York

BS in Computer Science with Certificate in Data Intensive Computing

Aspiring AI/ML Engineer
Aspiring Quant Data Engineer
Residence: New York, United States
City: Buffalo

PROGRAMMING SKILLS

python 95%

java 85%

sql 90%

tensorflow 80%

react 75%

OTHER SKILLS

✓ PyTorch, scikit-learn, Hugging Face

✓ AWS, Azure, Google Cloud

✓ MySQL, PostgreSQL, MongoDB

✓ Git, Jupyter, Power BI, Tableau

DOWNLOAD RESUME →

in ✉

Shubham Sharma

<code> I build ML models and quantitative systems. |
</code>

My Skills

Machine Learning

Building predictive models, NLP systems, and recommendation engines using TensorFlow, PyTorch, and scikit-learn.

Data Engineering

Designing data pipelines, ETL processes, and scalable architectures with SQL, NoSQL, and cloud platforms.

Quantitative Analytics

Applying statistical methods, feature engineering, and backtesting for data-driven decision making.

Research & AI

Advancing AI research in affective computing, LLMs, and generative models for practical applications.

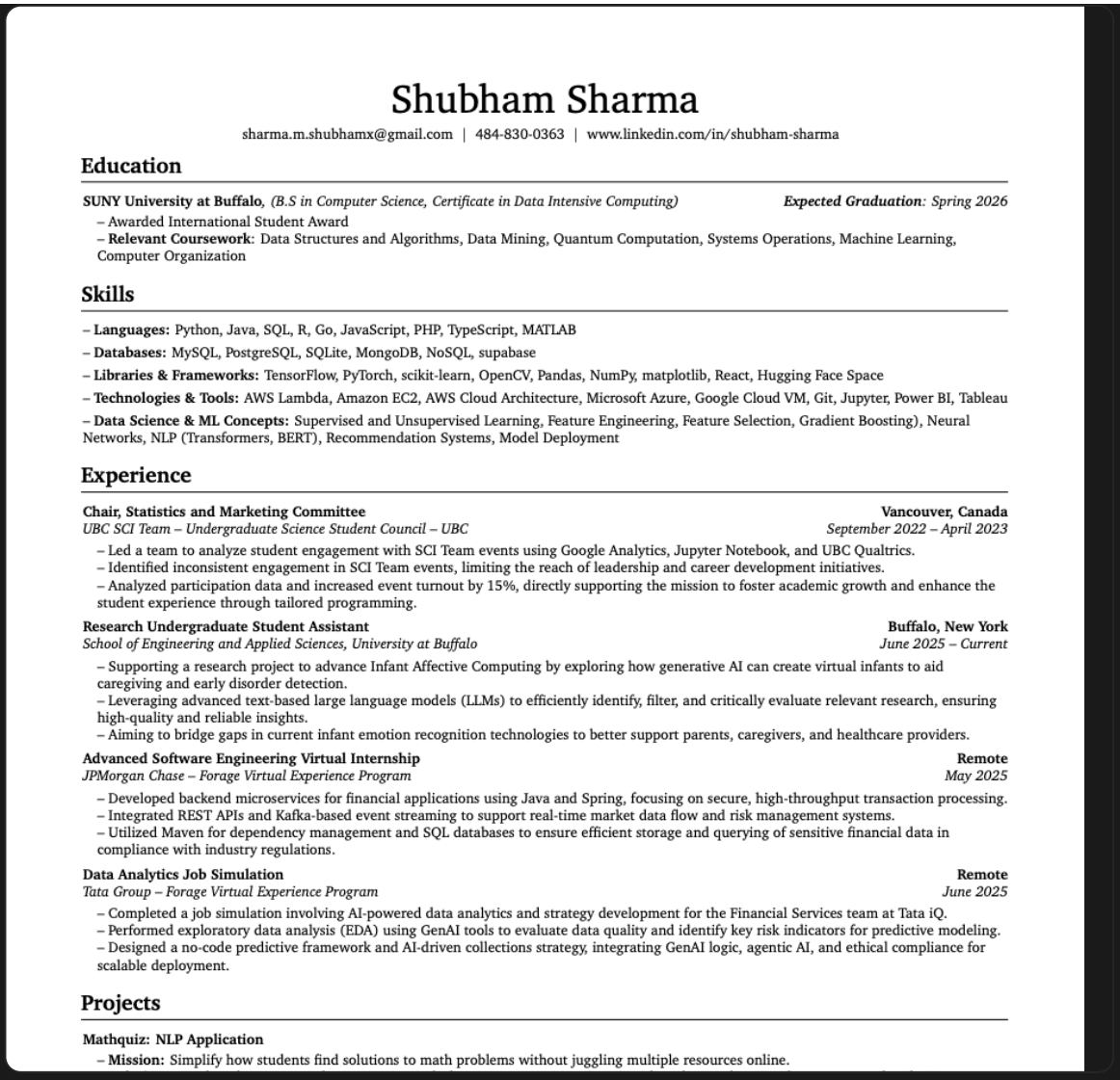
Software Development

Building microservices, REST APIs, and full-stack applications with Java, Spring, and React.

Data Visualization

Creating dashboards and reports with Power BI, Tableau, and matplotlib for actionable insights.

Resume



Shubham Sharma

sharma.m.shubhamx@gmail.com | 484-830-0363 | www.linkedin.com/in/shubham-sharma

Education

SUNY University at Buffalo, *(B.S in Computer Science, Certificate in Data Intensive Computing)* ***Expected Graduation**: Spring 2026*

– Awarded International Student Award
– **Relevant Coursework**: Data Structures and Algorithms, Data Mining, Quantum Computation, Systems Operations, Machine Learning, Computer Organization

Skills

– **Languages:** Python, Java, SQL, R, Go, JavaScript, PHP, TypeScript, MATLAB
– **Databases:** MySQL, PostgreSQL, SQLite, MongoDB, NoSQL, supabase
– **Libraries & Frameworks:** TensorFlow, PyTorch, scikit-learn, OpenCV, Pandas, NumPy, matplotlib, React, Hugging Face Space
– **Technologies & Tools:** AWS Lambda, Amazon EC2, AWS Cloud Architecture, Microsoft Azure, Google Cloud VM, Git, Jupyter, Power BI, Tableau
– **Data Science & ML Concepts:** Supervised and Unsupervised Learning, Feature Engineering, Feature Selection, Gradient Boosting), Neural Networks, NLP (Transformers, BERT), Recommendation Systems, Model Deployment

Experience

Chair, Statistics and Marketing Committee **Vancouver, Canada**
UBC SCI Team – Undergraduate Science Student Council – UBC *September 2022 – April 2023*

– Led a team to analyze student engagement with SCI Team events using Google Analytics, Jupyter Notebook, and UBC Qualtrics.
– Identified inconsistent engagement in SCI Team events, limiting the reach of leadership and career development initiatives.
– Analyzed participation data and increased event turnout by 15%, directly supporting the mission to foster academic growth and enhance the student experience through tailored programming.

Research Undergraduate Student Assistant **Buffalo, New York**
School of Engineering and Applied Sciences, University at Buffalo *June 2025 – Current*

– Supporting a research project to advance Infant Affective Computing by exploring how generative AI can create virtual infants to aid caregiving and early disorder detection.
– Leveraging advanced text-based large language models (LLMs) to efficiently identify, filter, and critically evaluate relevant research, ensuring high-quality and reliable insights.
– Aiming to bridge gaps in current infant emotion recognition technologies to better support parents, caregivers, and healthcare providers.

Advanced Software Engineering Virtual Internship **Remote**
JPMorgan Chase – Forage Virtual Experience Program *May 2025*

– Developed backend microservices for financial applications using Java and Spring, focusing on secure, high-throughput transaction processing.
– Integrated REST APIs and Kafka-based event streaming to support real-time market data flow and risk management systems.
– Utilized Maven for dependency management and SQL databases to ensure efficient storage and querying of sensitive financial data in compliance with industry regulations.

Data Analytics Job Simulation **Remote**
Tata Group – Forage Virtual Experience Program *June 2025*

– Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
– Performed exploratory data analysis (EDA) using GenAI tools to evaluate data quality and identify key risk indicators for predictive modeling.
– Designed a no-code predictive framework and AI-driven collections strategy, integrating GenAI logic, agentic AI, and ethical compliance for scalable deployment.

Projects

Mathquiz: NLP Application
– **Mission:** Simplify how students find solutions to math problems without juggling multiple resources online.

Experience

Chair, Statistics and Marketing Committee (Vancouver)

UBC SCI Team – Undergraduate Science Student Council – UBC September 2022 – April 2023

- Led a team to analyze student engagement with SCI Team events using Google Analytics, Jupyter Notebook, and UBC Qualtrics.
- Identified inconsistent engagement in SCI Team events, limiting the reach of

leadership and career development initiatives.

- Analyzed participation data and increased event turnout by 15%, directly supporting the mission to foster academic growth and enhance the student experience through tailored programming.

Research Undergraduate Student Assistant (Buffalo)

School of Engineering and Applied Sciences, University at Buffalo June 2025 – Current

- Supporting a research project to advance Infant Affective Computing by exploring how generative AI can create virtual infants to aid caregiving and early disorder detection.
- Leveraging advanced text-based large language models (LLMs) to efficiently identify, filter, and critically evaluate relevant research, ensuring high-quality and reliable insights.
- Aiming to bridge gaps in current infant emotion recognition technologies to better support parents, caregivers, and healthcare providers.

Advanced Software Engineering Virtual Internship (Remote)

JPMorgan Chase – Forage Virtual Experience Program May 2025

- Developed backend microservices for financial applications using Java and Spring, focusing on secure, high-throughput transaction processing.
- Integrated REST APIs and Kafka-based event streaming to support real-time market data flow and risk management systems.
- Utilized Maven for dependency management and SQL databases to ensure efficient storage and querying of sensitive financial data in compliance with industry regulations.

Data Analytics Job Simulation (Remote)

Tata Group – Forage Virtual Experience Program June 2025

- Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
- Performed exploratory data analysis (EDA) using GenAI tools to evaluate data

quality and identify key risk indicators for predictive modeling.

- Designed a no-code predictive framework and AI-driven collections strategy, integrating GenAI logic, agentic AI, and ethical compliance for scalable deployment.

Projects

Mathquiz: NLP Application

- Mission: Simplify how students find solutions to math problems without juggling multiple resources online.
- Solution: Developed an NLP app leveraging Optical Character Recognition (OCR) with Python and TensorFlow to convert handwritten questions into machine-readable text and search for top-rated answers.
- Unique impact: Streamlined learning through an intuitive upload interface; won 3rd place in an inter-school competition sponsored by Xiaomi.

MeetingMetric: AI Meeting Productivity Tool

- Mission: Enable HR teams to measure engagement and productivity during remote meetings where tracking individual contributions is challenging.
- Solution: Designed an AI tool integrating HuggingFace transformer-based language models to analyze meeting transcripts, scoring participant engagement and sentiment on a scale from 0 to 1.
- Unique impact: Delivered a dynamic dashboard to monitor meeting trends, enabling data-driven improvements to workforce engagement and productivity.

BetGenie: Baseball AI Prediction App

- Mission: Provide affordable and accurate baseball analytics amidst costly and inconsistent data sources.
- Solution: Built an AI-driven app utilizing custom feature engineering, clustering-based labeling, and integration of LLaMA 3 large language models to analyze player stats, park factors, weather, and game conditions.
- Unique impact: Enabled precise, data-driven game predictions and insights for fans and analysts, delivering value unavailable in many existing platforms.

Certificates

| DOE

ment of Education

District DOE

Department of Education

sharma.m.shubhamx@gmail.com | 484-830-0363